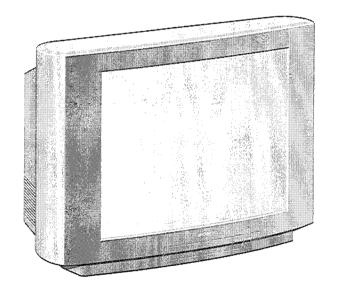
SERVICE MANUAL

BE-3D CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. | MODEL | COMMANDER | DEST. | CHASSIS NO. |
|------------|-----------|---------|-------------|----------|-----------|---------|-------------|
| KV-29C1A | RM-839 | Italian | SCC-K05D-A | KV-29C1E | RM-839 | Spanish | SCC-K06D-A |
| KV-29C1B | RM-839 | French | SCC-K01D-A | KV-29C1K | RM-839 | OIRT | SCC-K08F-A |
| KV-29C1D | RM-839 | AEP | SCC-K07D-A | KV-29C1R | RM-839 | OIRT | SCC-K08G-A |
| KV-29C1D 1 | RM-839 | AEP | SCC-K07J-A | | | | |









| ITEM MODEL | Television System | Channel Coverage | Colour System |
|------------|-------------------|---|---|
| Italian | B/G/H | VHF: E2-E12, S1-S20, A-H, H1,H2 UHF: E21-E69 | PAL NTSC3.58/4.43 (video input only) |
| French | B/G/H, D/K, L, I | L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |
| AEP | B/G/H, D/K | B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |
| Spanish | B/G/H, D/K | PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |
| OIRT | B/G/H, D/K | B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |

| MODEL | 29C1A | 29C1B | 29C1D 29C1D 1 | 29C1E | 29C1K 29C1R |
|-------------------|-------|-------|------------------|-------|----------------|
| Power Consumption | 85W | 95W | 95W | 95W | 95W |

SPECIFICATIONS

Picture Tube

Super Trinitron

Approx. 72 cm (29 inches)

(Approx. 68 cm picture measured

diagonally)
110° -deflection

Rear/Front Terminals

[REAR]

1 21-pin Euro connector (CENELEC standard)

- Inputs for audio / video signals

Inputs for RGB

- Outputs for TV audio and video signals

→ 2/→ 2, 21-pin Euro connector (CENELEC standard)

- Inputs for audio / video signals

- Inputs for S video

- Outputs for TV audio and video signals (selectable)

[FRONT]

3 . Video input - phono jack

3. Audio inputs - phono jacks

3, S video input - 4 pin DIN

(KV-29C1D 1 does not have → 3, → 3 or → 3)

Stereo minijack - headphone jack

Sound output

Left/Right 2x5W (RMS)

2x10W (music power)

Dimensions

794x567x533 mm approx.

Weight

Approx. 43.0 kg

Supplied accessories

RM-839 Remote Commander (1)

Batteries R6 (2)

Other features

Fastext, TOPTEXT

[RM-839]

Remote control system

Infrared control

Power requirements

3V dc (2 batteries) R6 (size AA)

Dimensions

Approx. 210x45x24 mm (w/h/d)

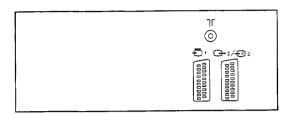
Weight

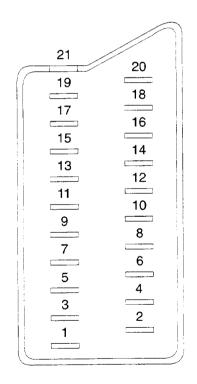
Approx. 91g (Not including battery)

Design and specifications are subject to change without notice.

| Model name | KV-29C1A | KV-29C1B | KV-29C1D | KV-29C1D 1 | KV-29C1E | KV-29C1K KV-29C1R |
|------------------|----------|----------|----------|------------|----------|----------------------|
| Item | | | | | | |
| PIP | OFF | OFF | OFF | OFF | OFF | OFF |
| MPIP | OFF | OFF | OFF | OFF | OFF | OFF |
| Scart 1 | ON | ON | ON | ON | ON | ON |
| Scart 2 | ON | ON | ON | ON | ON | ON |
| Front in (3) | ON | ON | ON | OFF | ON | ON |
| Scart 4 | OFF | OFF | OFF | OFF | · OFF | OFF |
| AKB in 16:9 mode | ON | ON | ON | ON | ON | ON |
| TXT | ON | ON | ON | ON | ON | ON |
| FLOF | ON | ON | ON | ON | ON | ON |
| TOP | ON | ON | ON | ON | ON | ON |
| Norm B/G/H | ON | ON | ON | ON | ON | ON |
| Norm I | OFF | ON | OFF | OFF | OFF | OFF |
| Norm D/K | OFF | ON | ON | ON | ON | ON |
| Norm AUS | OFF | OFF | OFF | OFF | OFF | OFF |
| Norm L | OFF | ON | OFF | OFF | OFF | OFF |
| Norm SAT | OFF | OFF | OFF | OFF | OFF | OFF |
| Norm M | OFF | OFF | OFF | OFF | OFF | OFF |
| Language Preset | Italian | French | German | German | Spanish | OIRT |

21 pin connector (- → 1, → 2/- 9 2)





| Pin No. | 1 | 2 | 4 | Signal | Signal Level |
|---------|---|---|---|---------------------------------|---|
| 1 | 0 | 0 | 0 | Audio output B (Right) | Standard level : 0.5V rms Output impedance : Less than 1k ohms* |
| 2 | 0 | 0 | 0 | Audio input B (Right) | Standard level : 0.5V rms Output impedance : More than 10k ohms* |
| 3 | 0 | 0 | 0 | Audio output A (Left) | Standard level : 0.5V rms Output impedance : Less than 1k ohm* |
| 4 | 0 | 0 | 0 | Ground (Audio) | |
| 5 | 0 | 0 | 0 | Ground (Blue) | |
| 6 | 0 | 0 | 0 | Audio input A (Left) | Standard level : 0.5V rms Output impedance : Less than 10k ohm* |
| 7 | 0 | • | • | Blue input | $0.7 \pm 3 dB$, 75 ohms, positive |
| 8 | 0 | 0 | 0 | Function select (AV control) | High state (9.5 - 12V): Part mode Low state (0 - 2V): TV mode Input impedance: More10k ohms Input capacitance: Less than 2nF |
| 9 | 0 | 0 | 0 | Ground (Green) | |
| 10 | 0 | 0 | 0 | Open | |
| 11 | 0 | • | • | Green | |
| 12 | 0 | 0 | 0 | Open | |
| 13 | 0 | 0 | 0 | Ground (Red) | |
| 14 | 0 | 0 | 0 | Ground (Blanking) | |
| | 0 | _ | - | Red input | 0.7 ± 3dB, 75 ohms, positive |
| 15 | _ | 0 | 0 | (S signal) croma input | 0.7 ± 3dB, 75 ohms, positive |
| 16 | 0 | • | • | Blanking input (Ys signal) | High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms |
| 17 | 0 | 0 | 0 | Ground (Video output) | |
| 18 | 0 | 0 | 0 | Ground (Video input) | |
| 19 | 0 | 0 | 0 | Video output | 1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB) |
| 20 | 0 | _ | _ | Video input | $1V \pm 3dB$, 75ohms, positive sync : 0.3V (-3 + 10dB) |
| ۵0 | - | 0 | 0 | Video input Y (S signal) | 1V ± 3dB. 75ohms, positive sync : 0.3V (-3 + 10dB) |
| 21 | 0 | 0 | 0 | Common ground (plug, sheild) | |

| Connected | Not Connected (Open) | * at 20Hz - 20kHz |
|-------------------------------|--|-------------------|
| Connected | Not Connected (Open) | at Zoniz Zoni |

| Pin No. | Signal | Signal Level |
|---------|--------------------|--|
| 1 | Ground | |
| 2 | Ground | |
| 3 | Y (S signal) input | 1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB |
| 4 | C (S signal) input | 0.3V ± 3dB 75ohm, positive Sync. |

| | 0 | |
|--|---|--|
| | Ú | |

TABLE OF CONTENTS

| <u>Se</u> | <u>ction</u> <u>Title</u> | <u>Page</u> | Sect | <u>ion</u> | <u>Title</u> | <u>Page</u> |
|-----------|--|-------------|------|--|---|--|
| | GENERAL Overview Getting Started TV Operation Advanced Operations Teletext Optional Equipment For Your Information DISASSEMBLY 2-1. Rear Cover Removal 2-2. Chassis Assy Removal 2-3. Service Position 2-4. Wire Dressing 2-5. A Board Removal 2-6. Extension Board 2-7. Picture Tube Removal | | 6. I | 5-1. 5-2. 5-3. 5-4. EXP 5-1. | Block Diagrams Circuit Boards Location Schematic Diagrams and Printed Wiring Boards *D Board *A Board *C Board *Board *UB Board *VM Board *IF Block [VIF (AEP)] *IF Block [VIF (FR)] IC Blocks Semiconductors *LODED VIEWS Chassis Picture Tube | 38 43 48 58 60 63 63 65 67 |
| 3. | SET-UP ADJUSTMENTS 3-1. Beam Landing | 24 | 7. I | ELE | CTRICAL PARTS LIST | • 71 |
| 4. | CIRCUIT ADJUSTMENTS 4-1. Electrical Adjustments 4-2. Test Mode 2: 4-3. BE-3D Self Diagnostic Software | 30 | | | | |

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LETUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

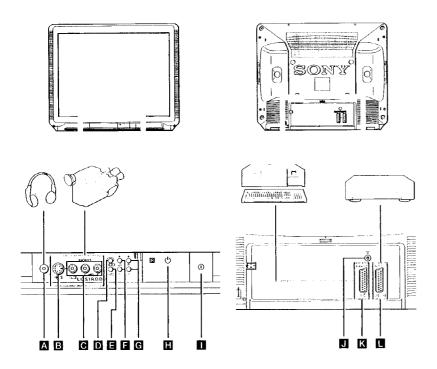
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

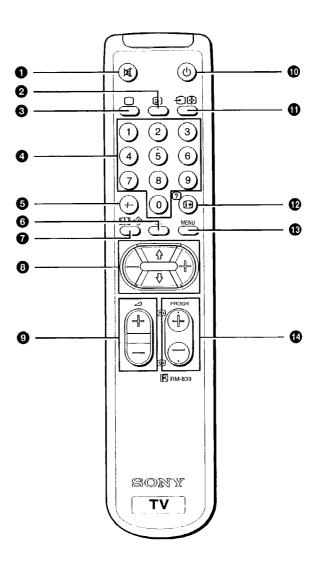
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE À SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.





6

Overview

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flap at the front of the instruction manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

TV buttons and Terminals

| Reference and Symbol | Name | Refer to Page |
|-----------------------|-------------------------|---------------|
| Front of the set | | |
| Α Ω | Headphones jack | 4 |
| B − 3 3 | S video input jack | 29 |
| C ⊕ 3, ⊕ 3 | Audio/video input jacks | 29 |
| D 🖭 | Automatic Preset button | 11 |
| E € | Input mode button | 13 |
| F ⊿+/- | Volume control | 12 |
| G P +/- | Programme button | 12 |
| II (b) | Standby mode indicator | 12 |
| • | Main power switch | 12 |
| Rear of the set | | |
| . | Aerial socket | 10 |
| K −Ö1 | 21 pin Euro connector | 29 |
| □ | 21 pin Euro connector | 29 |

Overview

Remote Commander Operation

| Ref | erence and Symbol | Name | Refer to Page |
|-----|-------------------|--|---------------|
| 0 | σ× | Muting on/off button | 12 |
| 0 | (| Teletext button | 13 |
| 0 | 0 | TV power on/TV mode button | 12, 13 |
| 0 | 1, 2, 9, 0 | Number buttons | 12 |
| 6 | - / | Double digit entering button | 12 |
| 6 | OK | OK (Confirmation) button | 14 |
| 0 | ∐ / � | Screen format button Teletext: Favourite pages button | 12, 28 |
| 0 | | Menu control | 14 |
| 0 | ⊿+/- | Volume control button | 12 |
| 0 | ம | Standby button | 12 |
| • | - 9/⊕ | Input mode button Teletext: Freezing the subpage | 13, 27 |
| Ø | © /? | On-screen display button Teletext: reveal button | 12, 27 |
| Œ | MENU | Menu on/off button | 14 |
| 0 | PROGR +/- | Programme buttons Teletext: Page up/page down buttons | 12, 13 |

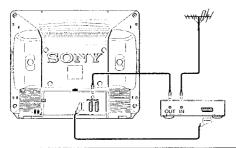
Insert the aerial plug tightly into the aerial socket \(\sqrt{\sq}}}}}}}}}} \ergintarinfty} \sqrt{\sq}}}}}}}}}} \ergintarightity} \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}} \ergintarightity} \sqrt{\sq}}}}}}} \ergintar\signt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}} \ergintar\signt{\sqrt{\sqrt{\sq}}}}}}} \ergintar\signt{\sqrt{\sqrt{\sq}}}}}} \ergintar\signt{\sq}}}} \ergintar\signt{\si cable (not supplied), corresponding to the relevant regulations.

Step 2

Connecting a VCR

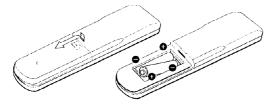
We recommend that you tune in the VCR signal to programme number "0". For details, see "Presetting Channels Manually" on page 16.

See "Connecting Optional Equipment" on page 29 for more information.



Step 3

Inserting the Batteries Into the Remote Commander



Respect your environment! Dispose of used batteries in an environmentally friendly way.

Step 4

Presetting Channels Automatically

With this function, the TV can automatically search and store up to 100 different channel numbers.

If you prefer manual presetting, refer to "Presetting Channels Manually" on page

1 Plug into mains. Press the power switch ① **II** on the TV set.

2 Press and hold the button **D** on the TV set until the automatic menu is displayed and the search starts.

After all available channels are stored, the normal TV picture is shown.

Note: Channels are automatically stored as follows;

| KV-25X1U/29X1U | KV-25X1L/29X1L |
|------------------------|------------------------|
| Programme 1 BBC1 | Programme 1 RTE1 |
| Programme 2 BBC2 | Programme 2 RTE2 |
| Programme 3 ITV | Programme 3 BBC1 |
| Programme 4 CH4 or S4C | Programme 4 BBC2 |
| | Programme 5 ITV |
| | Programme 6 CH4 or S4C |
| | O |

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flap at the front of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

TV Operation

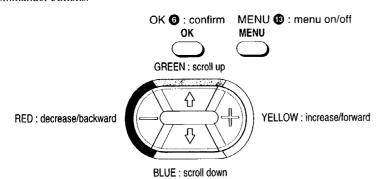
| То | Press |
|---------------------------------|--|
| Switch on | ① 🚺 on TV |
| Switch off temporarily | ① ⑩ TV is now in standby mode and ① H indicator on TV lights up. |
| Switch on from standby mode | ☐ 3 , PROGR +/- 1 G or any number button 4 . |
| Switch off completely | ① 1 on TV To save energy, switch off your TV completely when TV is not in use. |
| Select programmes | PROGR +/- 19 or number buttons For double digit number, press -/ then the number e.g. For 23, press -/ then 2 and 3. |
| Display on screen indications | (i) (ii) Press again to make the indications disappear. |
| Adjust the volume | ∠ + or - 9 F |
| Mute the sound | □ Press again to restore the sound. |
| View programmes in 16:9 mode | ∰ ② . Press again to return to 4:3 mode. |

| То | Press |
|---|--|
| View video input picture (see page 30 for detailed information) | ② ① ■ repeatedly until the desired video input appears. Press □ ③ to restore the TV picture. |
| View teletext (see page 27 for detailed information) | |
| Switch on | ⊜ @ |
| Select a page | three number buttons 4 or 1 6 (for next page) or 1 6 (for previous page). |
| Use fastext | Blue, Green, Red or Yellow 3. |
| Switch off | ○ 3 |

- 10 -

Adjusting and Setting the TV Using the Menu

You can adjust and set various functions on the TV using the following remote commander buttons:



Choosing the Menu Language

This function enables you to change the language of the menu screens.

- 1 Press power switch ① on the TV. If the standby indicator ① on the TV is lit, press ② or a number button on the Remote Commander.
- Press the MENU button ® on the remote commander.

■ ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
NEDERLANDS
POLSKI
ČESKY
MAGYAR

LANGUAGE

- Press blue or green 10 to select the language you want then press yellow 10.
- 4 Press the MENU button ® to restore the normal TV picture.

Presetting Channels Automatically

You may have already preset the channels automatically by using the method shown on page 11. You can also preset channels automatically by using the remote commander as follows:

- 1 Press the MENU button **3**.
- Press blue or green ③ to select the symbol ⑤ on the menu screen then press yellow ③.

- PRESET

 AUTO PROGRAMME
 MANUAL PROGRAMME
 AV LABEL PRESET
 PROGRAMME SORTING
 PARENTAL LOCK
 LANGUAGE
 PICTURE ROTATION [00]
- **3** Press blue or green **1** to select 'AUTO PROGRAMME'.
- 4 Press and hold yellow 3 until the automatic menu is displayed and the search starts.

After all available channels have been preset, the normal TV picture is shown.

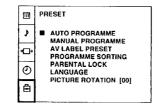
AUTO PROGRAMME

PROG SYS CH LABEL 01 B/G C25 -----

Presetting Channels Manually

This function enables you to preset channels one by one to different programme numbers. This is also convenient for allocating programme numbers to various video input sources.

- 1 Press the MENU button **1**.
- Press blue or green **③** to select the symbol **□** on the menu screen then press yellow **③**.



Press blue or green to select 'MANUAL PROGRAMME' then press yellow .

| MANUAL PROGRAMME PRESET | | | | |
|-------------------------|-----|------|-------|-----|
| PROG | SYS | CHAN | LABEL | AFT |
| 1 | B/G | CI | | ON |
| 2 | B/G | C 4 | | ON |
| 3 | B/G | C12 | | ON |
| 4 | B/G | C22 | | ON |
| 5 | B/G | C33 | | ON |
| 6 | B/G | C41 | | ON |
| 7 | B/G | C17 | | ON |
| 8 | B/G | C32 | | ON |

- 4 Press blue or green 3 to select on which programme number you want to preset a channel then press yellow 3.
- Press blue or green to select the TV broadcast system 'I' or a video input source (AV1,AV2 ...) then press yellow ...
- (This step 6 is only for KV-25X1L/29X1L)

 Press blue or green (3) to select 'C' (for terrestrial channels) or 'S' (for cable channels) then press yellow (1).
- 7 Select the first number digit of 'CHAN' then the second number digit of 'CHAN' with the number buttons 4 on the remote commander or

 Press blue or green 4 to search for the next available channel number.

- If you want to store the channel number, go to step 9. If not, select a new channel number using the number buttons ① on the remote commander or press blue or green ③ to resume the search.
- 9 Press OK **6**.
- **10** Repeat steps 4 to 9 to preset other channels.
- 11 Press the MENU button **®** to restore the normal TV picture.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

Press the MENU button (8).

Press blue or green to select for picture control or 1 for sound control then press yellow 3.

| | SOUND CONTROL | | | PICTURE CONTROL | |
|----------|-----------------------------|-----------------|---|----------------------|----------------|
| . | TREBLE BASS BALANCE | | > | BRIGHTNESS COLOUR | 11111 11111 |
| 0 | RESET SPATIAL | [OFF] | | SHARPNESS HUE | 11111 |
| 0 | DUAL SOUND VOLUME OFFSET | [A] [00] | 0 | RESET | |
| ₿ | DUAL SOUND | {A} | ₿ | | |

3 Press blue or green **3** to select the desired item then press yellow **3**.

4 Press red or yellow 3 to alter the item then press OK 6. For the effect of each control, see the following tables.

5 Repeat steps 3 and 4 to adjust the other items.

6 Press the MENU button **18** to restore the normal TV picture.

| PICTURE CONTROL | Effect |
|-----------------|--|
| Contrast | Lower —— I —— Higher |
| Brightness | Darker Brighter |
| Colour | Less —— I —— More |
| Sharpness | Softer —— I —— Sharper |
| Hue | Greenish ——— Reddish (NTSC signals only) |
| Reset | Resets picture to the factory preset levels. |

Adjusting the Picture and Sound (continued)

| SOUND CONTROL | Effect |
|---------------|---|
| Treble | Less —— I —— More |
| Bass | Less —— I —— More |
| Balance | Left —— I —— Right |
| Reset | Resets sound to the factory preset levels. |
| Spatial | Acoustic sound effect. |
| Dual Sound | A: Left channel —> B: Right channel —> stereo —> mono |
| Volume Offset | Presets the volume level for individual programmes. |
| | -12 0 +12 |
| ○ Volume | Adjusts the headphone volume. |
| ∩ Dual Sound | Presets the headphone channels. |
| | A: Left channel> B: Right channel> stereo> mono |

Manual Fine-Tuning

Normally, the automatic fine-tuning (AFT) function is operating. If the picture is distorted however, you can manually fine-tune the TV to obtain a better picture reception.

- 1 Press the MENU button **3**.
- Press blue or green to select 'MANUAL PROGRAMME' then press yellow .

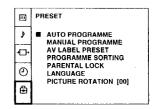
| MANU | AL PR | OGRAM | ME PRES | ET |
|------|-------|-------|---------|-----|
| PROG | SYS | CHAN | LABEL | AFT |
| 1 | B/G | C 1 | | ON |
| 2 | B/G | C 4 | | ON |
| 3 | B/G | C12 | | ON |
| ■ 4 | B/G | C22 | | ON |
| 5 | B/G | C33 | | ON |
| 6 | B/G | C41 | | ON |
| 7 | B/G | C17 | | ON |
| 8 | B/G | C32 | | ON |

- 4 Press blue or green 3 to select the programme number which corresponds to the channel you want to manually fine-tune.
- **5** Press yellow **3** repeatedly until the AFT position changes colour..
- **6** Press blue or green **3** to change the frequency of the channel from -15 to +15.
- 7 Press OK 6
- **8** Repeat steps 4 to 7 to fine-tune other channels.
- **9** Press the MENU button **18** to restore the normal TV picture.

Sorting Programme Positions

This function enables you to move channels to different programme numbers.

- 1 Press the MENU button ®
- 2 Press blue or green **3** to select the symbol **□** on the menu screen then press yellow **3**.
- Press blue or green to select 'PROGRAMME SORTING' then press yellow 3.



Press blue or green 1 to select the channel you want to move to another programme number then press yellow 1.

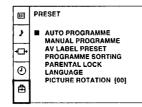
| PROGE | MMA | E SORTI | NG |
|------------|-----|---------|---------|
| PROG | SYS | CHAN | LABEL |
| = 1 | B/G | C23 | BBC - 1 |
| 2 | B/G | C26 | RTL |
| 3 | B/G | C29 | VHS - 1 |
| 4 | B/G | C31 | ZDF |
| 5 | B/G | C44 | ITV |
| 6 | B/G | C14 | SKY |
| 7 | B/G | C15 | SAT - 1 |
| 8 | B/G | C16 | BBC - 2 |

- **5** Press blue or green **3** to select the programme number to which you want to move the channel selected in step 4 then press yellow **3**.
- **6** Repeat steps 4 to 5 if you wish to move other channels to different programme numbers.
- **7** Press the MENU button **1** to restore the normal TV picture.

Using Parental Lock

This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press the MENU button **3**.
- 2 Press blue or green **③** to select the symbol **♣** on the menu screen then press yellow **③**.
- Press blue or green to select 'PARENTAL LOCK' then press yellow .



4 Press blue or green 6 to select the channel you want to block then press yellow 6.
The symbol appears before the programme number to indicate that this channel is now blocked.

| PARENTAL LOCK | | | |
|---------------|-----|------|-------|
| PROG | SYS | CHAN | LABEL |
| 1 | B/G | C23 | BBC - |
| 2 | B/G | C26 | RTL |
| 3 | B/G | C29 | VHS - |
| 4 | B/G | C31 | ZOF |
| 5 | B/G | C44 | ITV |
| 6 | B/G | C14 | SKY |
| 7 | B/G | C15 | SAT - |
| 8 | B/G | C16 | BBC - |

- **5** Repeat step 4 if you wish to block other channels.
- 6 Press the MENU button ® to restore the normal TV picture.

Note: To unblock, press yellow **3** after selecting the channel to unblock in the 'PARENTAL LOCK' menu.

Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

- 1 Press the MENU button **3**.
- Press blue or green to select the symbol on the menu screen then press yellow .
- **3** Press yellow **8**.
- 4 Press red or yellow 3 to set time delay and press OK 5

OFF 0:30 1:00 1:30 3:30 4:00

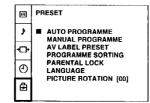
One minute before the TV switches into standby mode, a message is displayed on the screen.

5 Press the MENU button **6** to restore the normal TV picture.

Adjusting the Picture Rotation

If, due to the earth magnetism, the picture slants, you can use the function 'Picture Rotation' to readjust the picture.

- 1 Press the MENU button 19
- 2 Press blue or green ③
 to select the symbol ⊕ on the menu screen then press yellow ④.

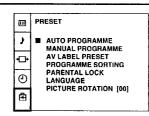


- **3** Press blue or green **3** to select 'PICTURE ROTATION' then press yellow **3**.
- 4 Press red or yellow 3 to adjust the picture rotation then press OK 6. The adjusting range is -5 to +5.
- **5** Press the MENU button **19** to restore the normal TV picture.

Skipping Programme Positions

This function enables you to skip unused channels when selecting programme numbers with the PROGR+/- buttons. However, you can still watch the skipped channel(s) by using the number buttons.

- 1 Press the MENU button **3**.
- Press blue or green **3** to select the symbol **□** on the menu screen then press yellow **3**.
- Press blue or green to select 'MANUAL PROGRAMME' then press yellow .



- 4 Press blue or green 3 to select the channel you want to skip then press yellow 3.
- Fress blue or green **3** until '---' appears in the 'SYS' position.

| MANUAL PROGRAMME PRESET | | | | |
|-------------------------|-----|------|-------|-----|
| PROG | SYS | CHAN | LABEL | AFT |
| 1 | B/G | C 1 | | ON |
| 2 | B/G | C 4 | | ON |
| 3 | B/G | C12 | | ON |
| 4 | 33E | C22 | | ON |
| 5 | B/G | C33 | | ON |
| 6 | B/G | C41 | | ON |
| 7 | B/G | C17 | | ON |
| 8 | B/G | C32 | | ON |

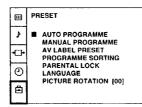
- 6 Press OK 6.
- **7** Repeat steps 4 to 6 to skip other channels.
- Press the MENU button 19 to restore the normal TV picture.

σ

Captioning a Station Name

Names for channels are usually automatically taken from teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

- Press the MENU button 19.
- Press blue or green **3** to select the symbol **5** on the menu screen then press
- Press blue or green 8 to select 'MANUAL PROGRAMME' then press yellow 3.



- 4 Press blue or green **1** to select the channel you wish to caption then press yellow 3 repeatedly until the first element of the 'LABEL' position is highlighted.
- Press 8 blue or green to select a letter or number and press yellow (select '-' for a blank). Select other characters in the same way.

| MANU | AL PR | OGRAM | ME PRES | SET |
|------|-------|-------|---------|-----|
| PROG | SYS | CHAN | LABEL | AFT |
| 1 | B/G | C 1 | | ON |
| 2 | B/G | C 4 | | ON |
| 3 | B/G | C12 | 3 | ON |
| 4 | B/G | C22 | -`A | ON |
| 5 | B/G | C33 | 11 | ON |
| 6 | B/G | C41 | | ON |
| 7 | B/G | C17 | | ON |
| 8 | B/G | C32 | | ON |

- After selecting all the characters, press OK 6.
- Repeat steps 4 to 6 to caption names for other channels.
- Press the MENU button 18 to restore the normal TV screen.

Teletext

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) gives you information on how to use

Make sure you use a TV channel with a strong signal, otherwise teletext errors may occur.

Switching Teletext On and Off

- Select the channel which carries the teletext service you wish to view.
- 2 Press **2** to display teletext. If no teletext signal is broadcast, the indication P100 is displayed on a black screen.
- Input three digits for the page number using the number buttons 4. The page counter searches for the page and after some seconds the page is
- **4** Press **3** to return to the normal TV picture.

Using Other Teletext Functions

| То | Press |
|---|--|
| Access the next or preceding teletext page | for the next page or for the preceding page |
| Mix the mode | When in teletext mode. Now the teletext page is superimposed on the TV programme. Press again to return to the normal teletext display. |
| Freeze a teletext subpage | ① Press once again to cancel. |
| Reveal hidden information (eg: answers to a quiz) | ② ② . Press once again to cancel. |

Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

Storing pages

- 1 Use the number buttons 4 to select the page you would like to store.
- 2 Press ♦ 7 twice. The colour prompts at the bottom of the screen flash.
- **3** Press red, green, blue or yellow to store the selected page. The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

Displaying the Favourite Pages

- 1 Press ↔ ②.
- 2 Press blue, green, red or yellow to select the desired page.

Make sure you press \diamondsuit $\mathbf{0}$, otherwise the normal Fastext facility operates.

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue colours on the Remote Commander.

Press the Remote Commander colour button that corresponds to the colour-coded menu. The selected page is displayed after some seconds.

Optional Equipment

Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the front flap page of this manual.

| Symbol | Acceptable input signals | Available output signals |
|---------------------------------|--------------------------------|----------------------------------|
| ⊕3, ⊕3 B -⊛3 C | Normal audio/video and S video | No output |
| -Ö1 K | Normal audio/video and RGB | Audio/video from TV tuner |
| G→ 2/G→ 2 L | Normal audio/video and S video | Audio/video from selected source |

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

Notes on connections:

If the picture or sound is distorted, move the VCR away from the TV.

When connecting a monaural VCR, connect only the white jack to both the TV and VCR.

28

Selecting Input and Output Signals

This section explains how to select the output signal from \bigcirc 2/ \bigcirc 2 \blacksquare and how to select and view the input. You can use direct access buttons 🕣 🛈 🖪 to select the input or the menu system to select input and output.

Selecting With Direct Access Buttons

Press Đ 🛈 🖪 repeatedly.

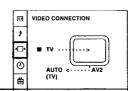
Press

3 to restore the normal TV picture.

| Symbol on the screen | Input Signal | _ |
|-------------------------------------|---|---|
| ⊕1 →Ö ⊕2 -⊕3 -⊕3 -⊕3 | Audio/video through Euro AV connector K RGB through Euro AV connector K Audio/video through Euro AV connector S video through Euro AV connector Audio/video through the phono jacks S video through the phono jacks S video through the phono jacks | |
| | | |

Selecting With the Video Connection Menu

- Press the MENU button 18.
- Press blue or green 8 to select → for "VIDEO CONNECTION" then press yellow **B**.



- Press blue or green to select input or output then press yellow 3
- 4 Press blue or green repeatedly to select the desired input or output source then press OK 6
- Press the MENU button **13** to restore the normal TV picture.

Note: If you select 'AUTO' for output, the output source automatically becomes the same as the desired input source.

Using AV Label Preset

This function enables you to label the input sources using up to five characters (letters or numbers).

- Press the MENU button 13
- **2** Press blue or green **3** to select the symbol **4** on the screen then press
- Press blue or green 8 to select AV LABEL PRESET 'AV LABEL PRESET' then INPUT LABEL press yellow 8 ■ AV1 RGB AV2 YC2 ----AV3 YC3
- Press blue or green 8 to select the desired input source then press yellow 3.
- Press blue or green **3** to select a letter or number then press yellow **8** (select '-' for a blank). Select other characters in the same way.
- After selecting all the characters, press OK 6.
- Repeat steps 4 to 6 to label other input sources.
- **8** Press the MENU button **10** to restore the normal TV screen.

Troubleshooting

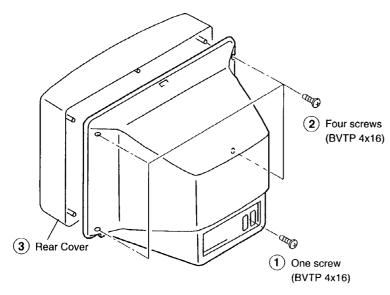
Here are some simple solutions to the problems which affect the picture and sound.

| Problem | Solution |
|---|--|
| No picture (screen is dark), no sound | Plug the TV in. Press ① ■ on the TV. (If ① indicator ■ is on, press ② or a programme number ② on the Remote Commander.) Check the aerial connection. Check if the selected video source is on. Turn the TV off for 3 or 4 seconds then turn it on again using ① ■. |
| Poor or no picture (screen is dark), but good sound | • Press MENU 1 to enter the 'PICTURE CONTROL' menu and adjust 'Contrast', 'Brightness' and 'Colour'. |
| Poor picture quality when watching an RGB video source. | • Press → ① I repeatedly to select → Ö. |
| Good picture but no sound | • Press ∠ + ⑨ ■. • If ⋈ is displayed on the screen, press ⋈ ●. |
| No colour for colour programmes | • Press MENU ® to enter the 'PICTURE CONTROL' menu, select 'Reset' then press OK 6 . |
| Remote Commander does not function. | •Replace the batteries. |

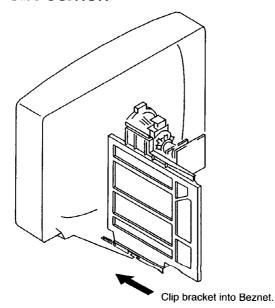
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

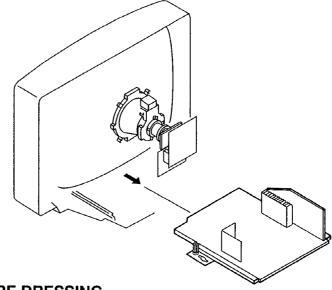
2-1. REAR COVER REMOVAL



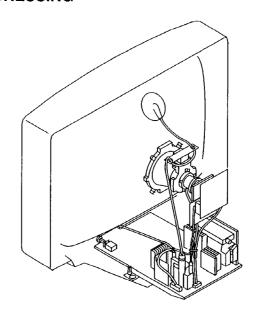
2-3. SERVICE POSITION



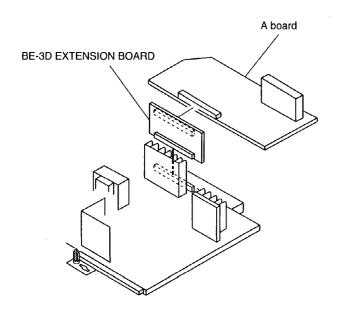
2-2. CHASSIS ASSY REMOVAL



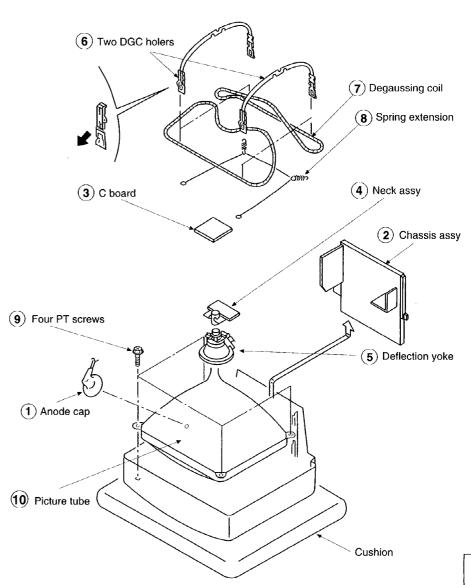
2-4. WIRE DRESSING



— 20 —



2-7. PICTURE TUBE REMOVAL



REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

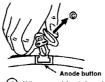
* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in 2 Using a thumb pull up the rubber cap 3 When one side of the rubber cap is the direction indicated by the arrow (a)



firmly in the direction indicated by the arrow (b)



separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material! ② Don't press the rubber hardly not to hurt inside of anode-caps!
- A metal fitting called as shatter-hook terminal is built into the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or damage the rubber.





SECTION 3 SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings:

| ① Contrast | 80% | (or remote control |
|--------------|-------|--------------------|
| | norma | al) |
| & Brightness | 50% | |

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. White balance

Note: Testing equipment required.

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 CONTRAST BRIGHTNESS normal
- 2. Position neck assy as shown in Fig.3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 3-3)
- 5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

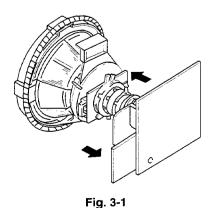


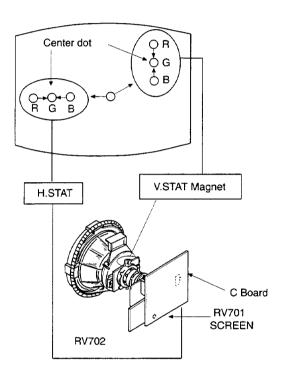
Fig. 3-2 Purity control A buckle NECK ASSY G1 G2 Deflection yoke Green Fig. 3-3 Red Blue Disk magnets or rotatable disk Purity control corrects magnets correct this area. these areas (a - d). Deflection yoke positioning corrects these areas. Fig. 3-4

3-2. CONVERGENCE

Preparation:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

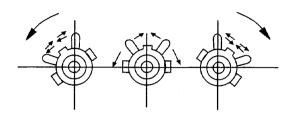


- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.

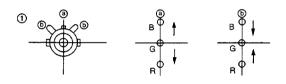
 (In this case, the H.STAT variable resistor and the

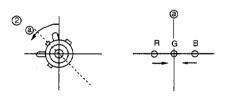
V.STAT magnet influence each other)

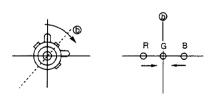
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

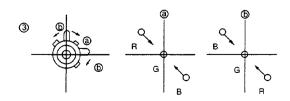


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

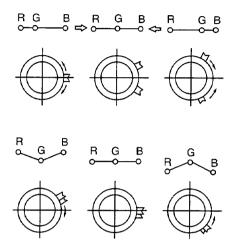




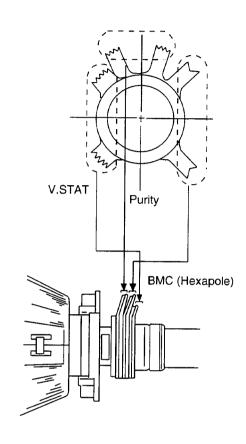




• Operation of BMC (Hexapole) Magnet



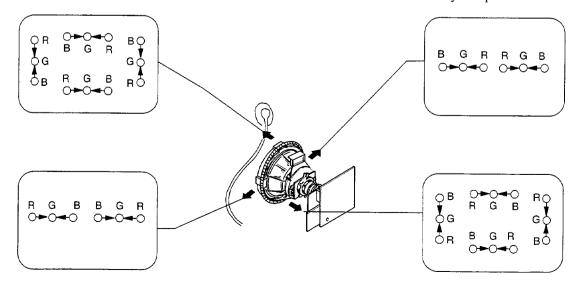
 The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).



(2) Dynamic convergence adjustment.

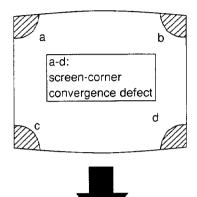
Preparation:

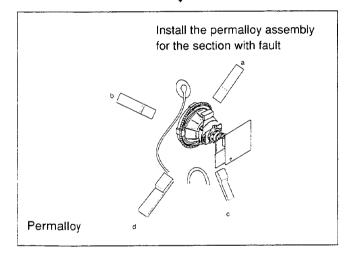
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.
- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Re-install the deflection yoke spacer.



(3) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.





3-3. WHITE BALANCE

G2 Setting

- 1. Switch the set into AV mode (apply no signal to the AV connectors).
- 2. Connect a Volt Meter to Test Point 1 on the A board.
- 3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

White balance adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Enter into the service mode.
- 3. Enter into Picture Adjustment service menu.
- 4. Select sub-contrast and adjust to 7.
- 5. Select the Green Drive and adjust so that the white balance becomes optimum.
- 6. Select the Blue Drive and adjust so that the white balance becomes optimum.
- 7. Press the TV button to return to TV operation.

| PICTURE ADJUSTMENT | |
|--------------------|-----|
| AFC mode | 1 |
| REF position | 2 |
| SCP BGR | 1 |
| SCP BGF | 1 |
| Trap Fo | 0 |
| Sub contrast | Adj |
| Sub colour | Adj |
| Sub brightness | Adj |
| Sub hue | Adj |
| Green drive | Adj |
| Blue drive | Adj |
| Green cutoff | Adj |
| Blue cutoff | Adj |
| Gamma | 0 |
| Pre / overshoot | 0 |
| Y delay | 3 |

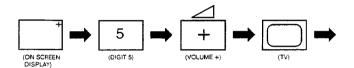
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-839.

HOW TO ENTER INTO SERVICE MODE

- 1. Turn on the main power switch of the set and enter into standby mode.
- 2. Press the following sequence of buttons on the Remote Commander.



"TT--" will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press MENU on the commander to obtain the following menu on the screen.

TEST MENU

> Picture adjustment
Geometry
Wide
MSP
IC status
Current TV status

- 4. Move to the corresponding adjustment using the button on the commander.
- 5. Press the + button to enter the selected adjustment.
- 6. Turn off the power to quit the service mode when adjustments are completed.

| PICTURE ADJUSTMENT | |
|--------------------|-----|
| AFC mode | 1 |
| REF position | 3 |
| SCP BGR | 1 |
| SCP BGF | 1 |
| Trap Fo | 7 |
| Sub contrast | Adj |
| Sub colour | Adj |
| Sub brightness | Adj |
| Sub hue | Adj |
| Green drive | Adj |
| Blue drive | Adj |
| Green cutoff | Adj |
| Blue cutoff | Adj |
| Gamma | 0 |
| Pre / overshoot | 0 |
| Y delay | 5 |

| GEOMETRY ADJUSTME | NT |
|-------------------|-----|
| V Size | Adj |
| V Position | Adj |
| S Correction | Adj |
| V Linearity | Adj |
| H Size | Adj |
| H Position | Adj |
| Pin Amp | Adj |
| Pin Phase | Adj |
| AFC Bow | Adj |
| AFC Angle | Adj |
| EHT V | Adj |
| EHT H | Adj |
| Corner Pin | Adj |

| WIDE | |
|----------------|------------|
| V Aspect | 43 |
| V Scroll | 31 |
| Upper V Lin | 0 |
| Lower V Lin | 0 |
| Left Blanking | 1 |
| Right Blanking | 1 1 |
| | |

| MSP | |
|---------------------|-----|
| AGC ON/OFF | ON |
| Constant gain CDB | 0 |
| FM prescale FMP | 36 |
| Zwei mono-st WHI | 36 |
| Zwei st-mono WLO | 18 |
| Zwei mono-bi WMH | 36 |
| Zwei bi-mono WLO | 18 |
| Time zwei WML | 41 |
| Fawct limit | 10 |
| Fawct soll init FAW | 12 |
| Fawer tol | 2 |
| Nicam Err Max CCT | 10 |
| Nicam Err Min | 0 |
| Nicam Prescale NIP | 97 |
| Time Nicam | 31 |
| Carrier mute CRM | OFF |
| Audio clock ACO | HIZ |
| Scart prescale | 25 |
| Scart volume | 64 |
| | |

| IC STATUS (CXA2000 / | CXA2040) | |
|----------------------|----------|--|
| CXA2000 | | |
| H lock | 1 | |
| IKR | 1 | |
| VNG | 0 | |
| X-RAY | 0 | |
| Colour system | 3 | |
| CV1 Sync | 1 | |
| CXA2040 | | |
| Sync sep | 1 | |
| S1 mode pin | 01 | |
| S2 mode pin | 01 | |
| TUNER | | |
| Tuner status | 01101011 | |

| TV STATUS | |
|-------------------|-------------------|
| Text system | C TEXT/TV TEXT |
| Dolby | NO/YES |
| Text language set | WEST/EAST/RUSSIAN |
| Menu language set | WEST/EAST/RUSSIAN |
| Destination | B/D/U/K/L/E/A/R |
| Scart 16:9 | OFF/ON |
| RGB priority | OFF/ON |
| Ageing | OFF/ON |
| Size | 29/25 |
| Colour trap sw | SECAM/ALL |
| Velocity mod | ON/OFF |
| AFT STATUS | WINDOW/HIGH/LOW |

SUB BRIGHTNESS ADJUSTMENT

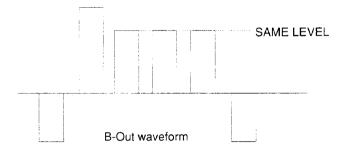
- 1. Input a Phillips pattern.
- 2. Set the picture control to minimum.
- 3. Enter into the Picture Adjustment Service Menu.
- 4. Adjust the Sub-Brightness data so that there is barely a difference between the 0 IRE and 10 IRE signal.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a black background.
- 2. Set the picture control to maximum.
- 3. Connect an oscilloscope to pin 3 of CN301 (A board).
- 4. Enter into the Picture Adjustment Service Menu.
- 5. Adjust the Sub-contrast data to obtain a black to white amplitude of 2.50 volts.

SUB COLOUR ADJUSTMENT

- 1. Receive a PAL Colour Bar video signal.
- 2. Connect an oscilloscope to pin 3 of CN301 (A board).
- 3. Enter into the Picture Adjustment Service Menu.
- 4. Adjust the sub colour data so that cyan, magenta and blue colour bars are of equal height.



NOTE: The data shown in the TV STATUS table is dependant on destination, screen size and country.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

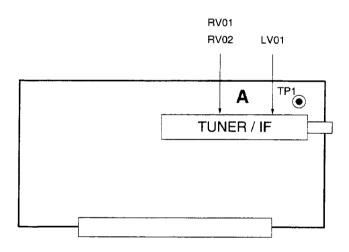
- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the I.F adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 38.9 MHz.
- 3. Enter into the service mode and select "Current TVStatus".
- 4. Adjust the I.F coil (LV01) until the "AFT Status" indicates a "Window" condition.

SYSTEM L BAND 1 I.F ADJUSTMENT

- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the I.F adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 34.2 MHz.
- 3. Enter into the service mode and select "Current TVStatus".
- 4. Adjust the RV02 until the "AFT Status" indicates a "Window" condition.

TUNER AGC ADJUSTMENT

- Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
- 2. Measure the voltage at test point 1 (A board).
- 3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

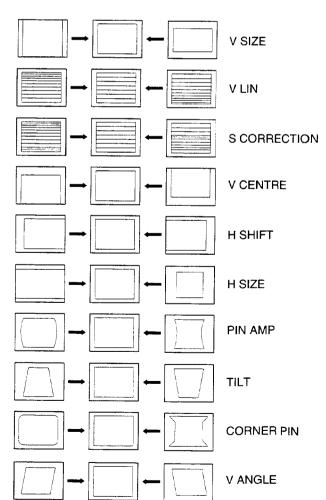


- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into the Geometry Adjustment Service Menu.
- 2. Select and adjust each item in order to obtain the optimum image.

| GEOMETRY ADJUSTME | NT | |
|-------------------|-----|--|
| V Size | Adj | |
| V Position | Adj | |
| S Correction | Adj | |
| V Linearity | Adj | |
| H Size | Adj | |
| H Position | Adj | |
| Pin Amp | Adj | |
| Pin Phase | Adj | |
| AFC Bow | Adj | |
| AFC Angle | Adj | |
| EHT V | Adj | |
| EHT H | Adj | |
| Corner Pin | Adj | |



4-2. TEST MODE 2:

Is available by pressing Test button twice, OSD " TT " appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

| | Switch test mode 2 off |
|----|-----------------------------|
| 01 | Picture maximum |
| 02 | Picture minimum |
| 03 | Volume 30% |
| 04 | Set service menu mode |
| 05 | Set production menu mode |
| 06 | Volume 80% |
| 07 | Set ageing condition |
| 08 | Set shipping condition |
| 09 | Language reset |
| 10 | No function |
| 11 | Adjustment without OSD |
| 12 | Dummy |
| 13 | Display TV configuration |
| 14 | Forced AV 6:9 mode |
| 15 | Reset LPM from ROM data |
| 16 | copy LPM to reset memory |
| 17 | Preset label for AV sources |
| 18 | RGB priority on/off |
| 19 | Clear all preset labels |
| 20 | No function |
| 21 | Sub contrast |
| 22 | Sub colour |
| 23 | Sub brightness |
| 24 | Set destination = U |
| 25 | Set destination = D |
| 26 | Set destination = B |
| 27 | Set destination = K |
| 28 | Set destination = L |
| 29 | Set destination = E |
| 30 | No function |
| 31 | Set destination =A |
| 32 | Dummy |
| 33 | Auto AGC |
| 34 | Dummy |
| 35 | Manual AGC adjust |

| 36-40 | Dummy |
|-------|--------------------------------------|
| 41 | Re-initialise NVM |
| 42 | Production use only |
| 43 | Initialise geometry settings |
| 44 | Initialise all favourite pages = 100 |
| 45 | Channel locks = off |
| 46 | Dealer commander mode |
| 47 | Default MSP settings |
| 48 | Restore NVM test byte |
| 49 | Delete NVM test byte |
| 50-60 | No function |
| 61 | Turn on Dolby Pro Logic mode |
| 62 | White noise to left speaker |
| 63 | White noise to right speaker |
| 64 | White noise to centre speaker |
| 65 | White noise to rear speaker |
| 66 | Set standard stereo mode |
| 67 | Set Pro Logic normal mode |
| 68 | Set Pro Logic wide mode |
| 69 | Set Pro Logic phantom mode |
| 70 | No function |
| 71 | Picture rotation on/off |
| 72 | Dolby register settings |
| 74 | No function |
| 75 | Reset picture colour balance |
| 76 | Reset picture geometry |
| 77 | Reset sound settings |
| 78 | Reset error codes in the NVM |
| 79-99 | No function |

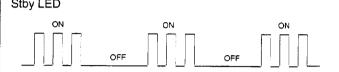
4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3D chassis is triggered in 1 of 2 ways: -1: Bus busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1, non fatal errors are reported with this method.

Table 1

| ERROR | LED ERROR COUNT |
|--|--------------------|
| Protection circuit trip < ANY TIME > | 02 |
| IIC SCL LOW < POWER UP ONLY > | 03 |
| IIC SDA LOW < POWER UP ONLY > | 04 |
| IIC SDA & SCL LOW < POWER UP ONLY > | 05 |
| Jungle/Choroma controller no acknowledge < POWER UP ONLY > | 06 |
| Video Switch no acknowledge < POWER UP ONLY > | 07 |
| Tuner no acknowledge | 08 |
| MSP no acknowledge | 09 |
| NVM no acknowledge | 10 |
| M3L TXD LOW < POWER UP ONLY > | 11 |
| M3L RXD LOW < POWER UP ONLY > | 12 |
| M3L ENABLE LOW < POWER UP ONLY > | 13 |
| M3L TXD & RXD LOW < POWER UP ONLY > | 14 |
| Compact Text test fail < POWER UP ONLY > | 15 |
| AV switch cannot power on reset | 16 |
| Cannot initialise jungle | 17 |
| NVM acknowledge fail after initialisation | 18 |
| Multiple devices with no acknowledge < POWER UP ONLY > | 19 |
| Compacttext run-time failure | 20 |
| AVSWITCH response failure after power up | 21 |
| JUNGLE/CHROMA controller response failure after power up | 22 |
| CompactText does not respond | 23 |

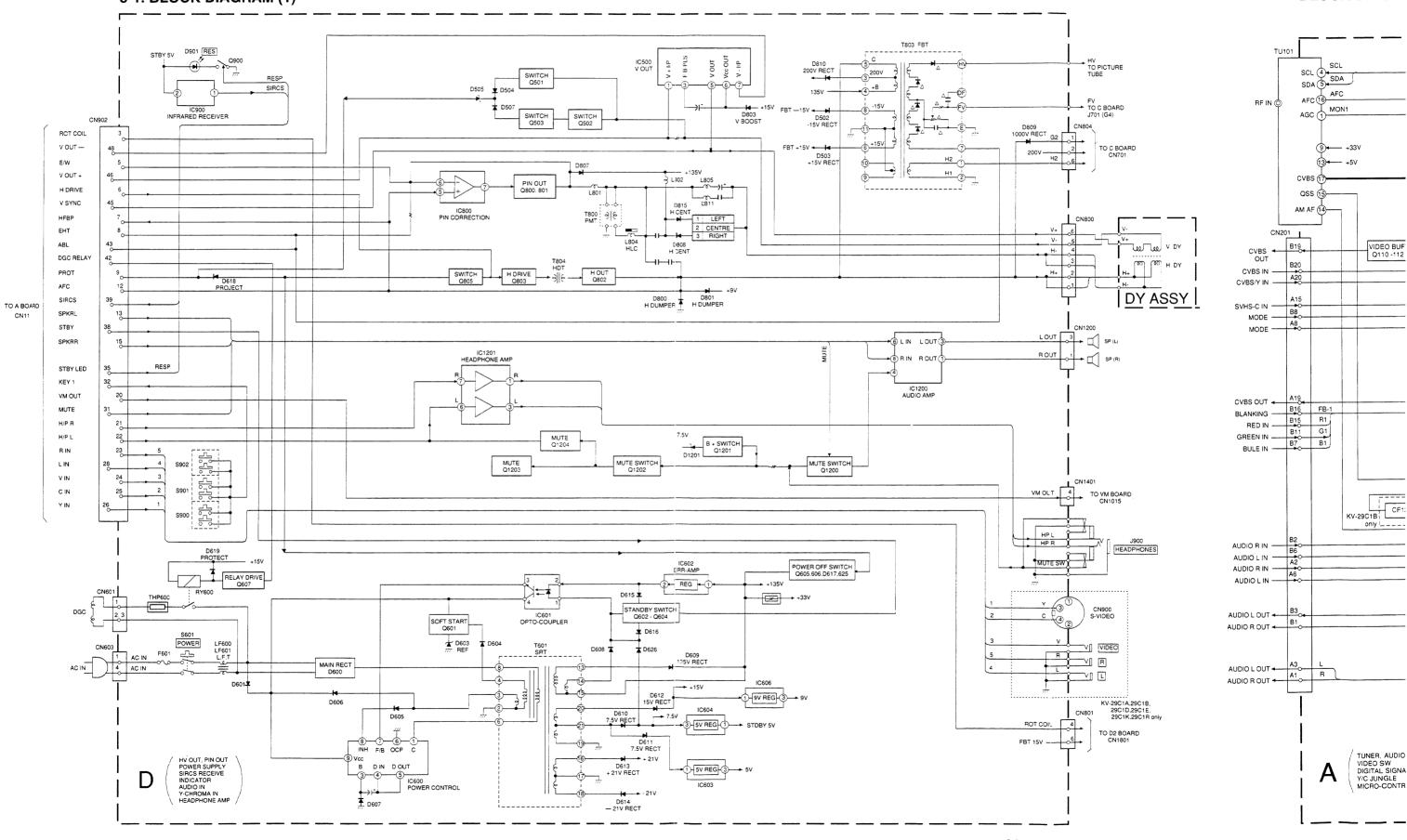
Flash Timing Example: e.g. error number 3.



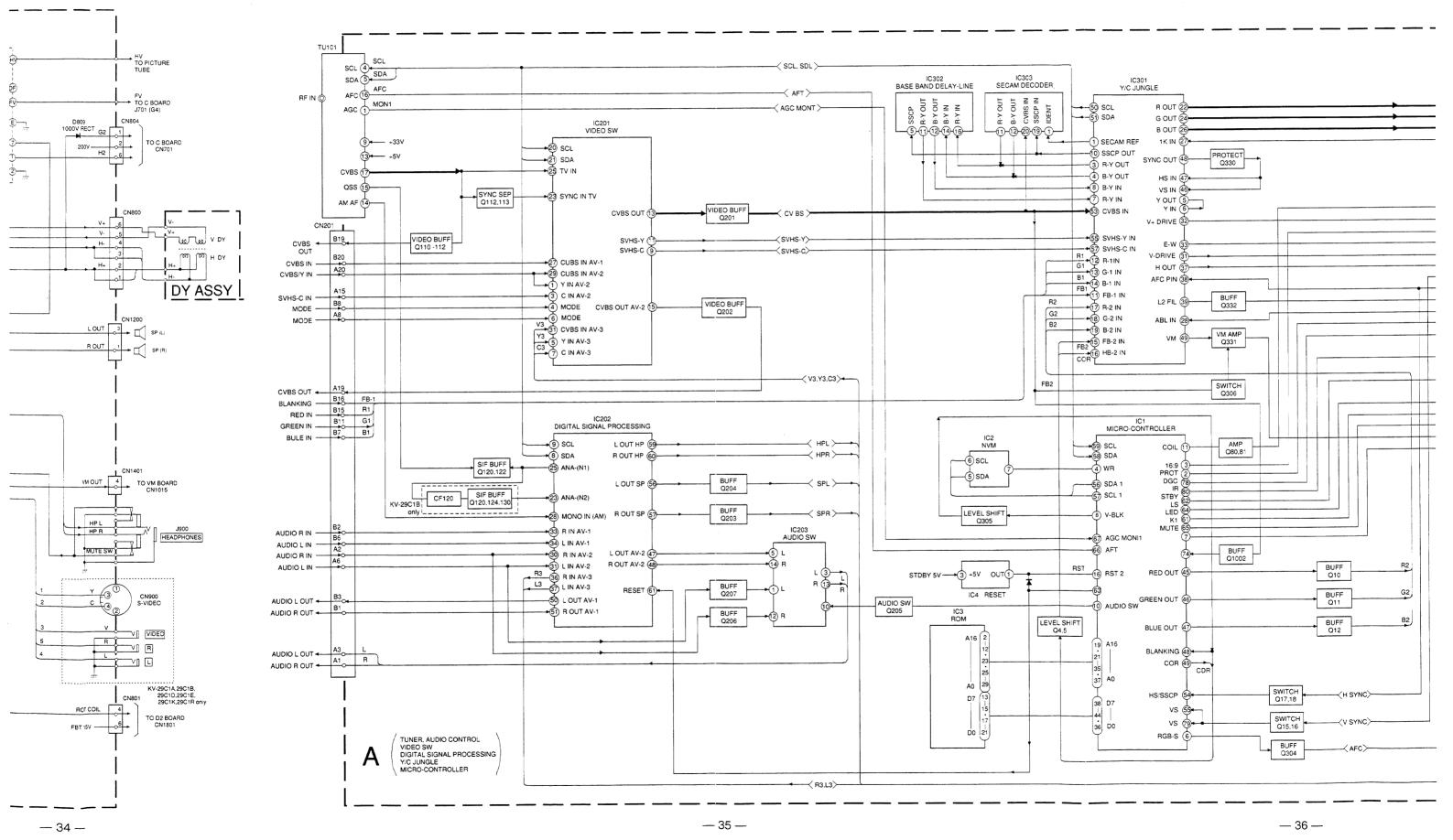
KV-29C1

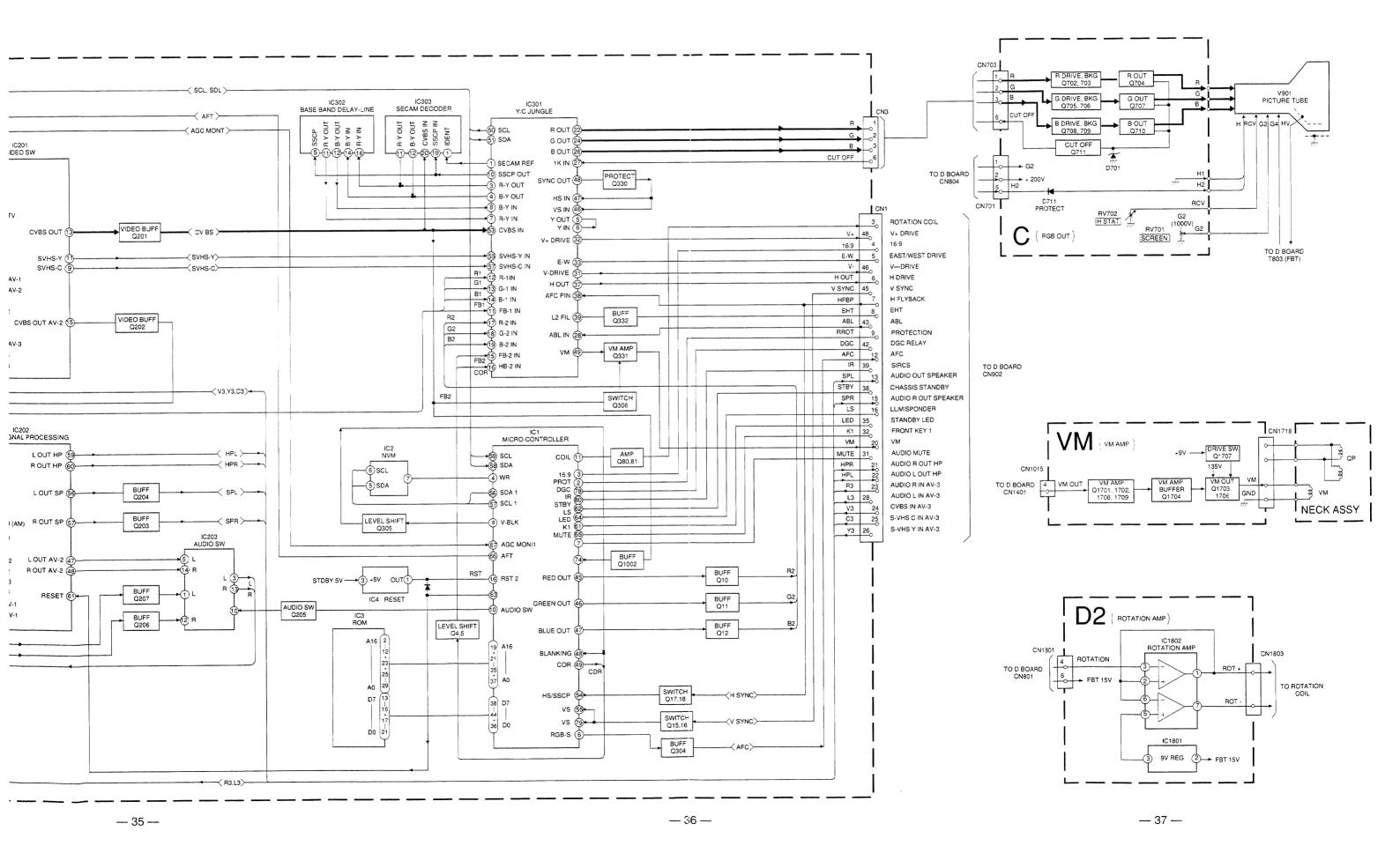
| MEMO | |
|------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

5-1. BLOCK DIAGRAM (1) BLOCK DIAGRAM



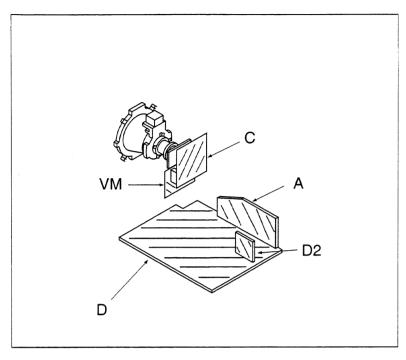
BLOCK DIAGRAM (2)





KV-29C1 KV-29C1

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

 All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000, M = 1000K

• Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

• : nonflammable resistor.
• : internal component.

• panel designation, or adjustment for repair.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• \(\perp \) : earth - ground.

• $\tau h \tau$: earth - chassis.

• # : no mounted.

Note: The components identified by shading and marked \(\hat{r}\) are critical for safety. Replace only with the part number specified.

Note: Les composants identifies par une trame et une marque /i. sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

Reference information RESISTOR : RN

: RC SOLID : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE : RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT : RW NONFLAMMABLE WIREWOUND ADJUSTABLE RESISTOR : X MICRO INDUCTOR COIL : LF-8L TANTALUM CAPACITOR : TA STYROL : PS : PP POLYPROPYLENE : PT MYLAR METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE : ALB BIPOLAR HIGH TEMPERATURE : ALT HIGH RIPPLE : ALR

METAL FILM

Readings are taken with a colour-bar signal input.

• Readings are taken with $10M\Omega$ digital multimeter.

Voltages are dc with respect to ground unless otherwise noted.

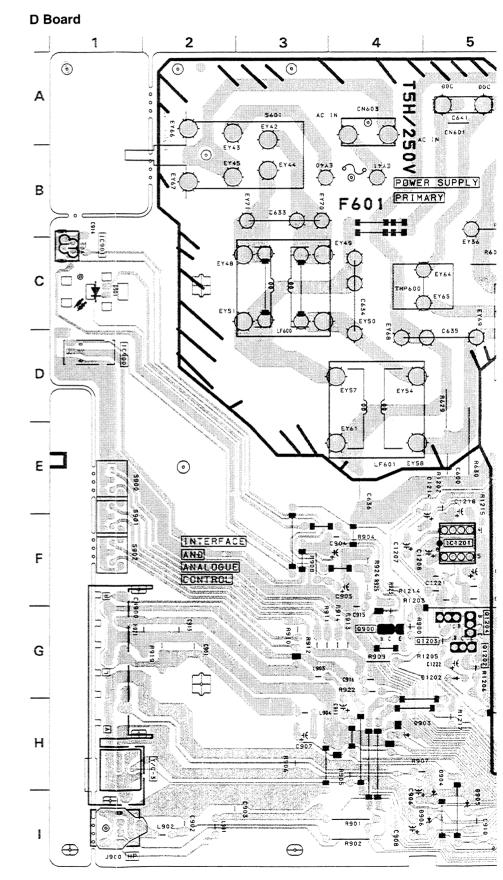
Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

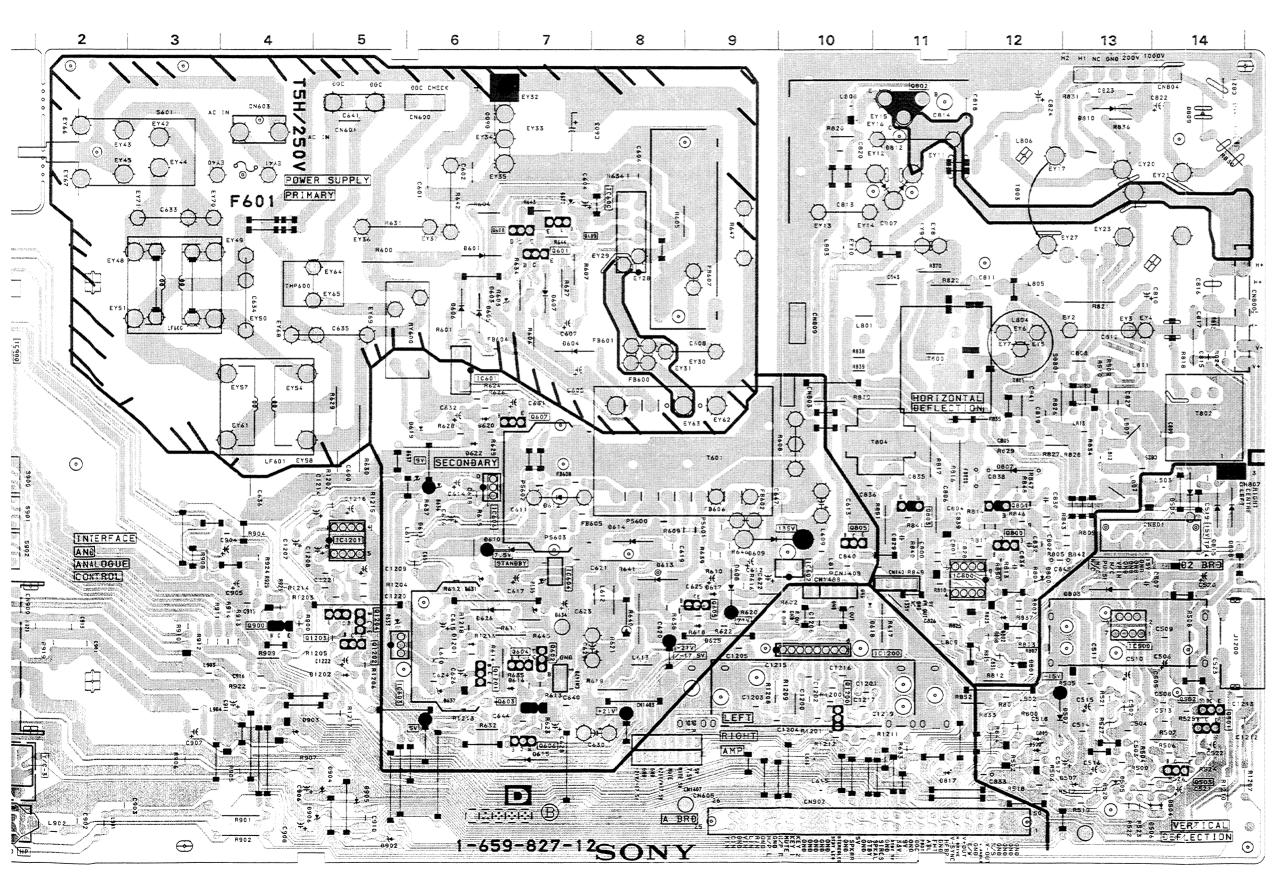
Circled numbers are waveform references.

: B+ bus.

• : signal path. (RF)



UT, PIN OUT, POWER SUPPLY, CONTROL SW, AUDIO IN ROMA IN, HEADPHONE IN, SIRCS RECEIVE, INDICAITON _





D BOARD

IC500 IC600 IC601 IC602 IC603 IC604 IC606 IC800 IC900

TRANSIS
Q501
Q502
Q503
Q601
Q602
Q603
Q604

Q605 Q606 Q607 Q800

Q801 Q802

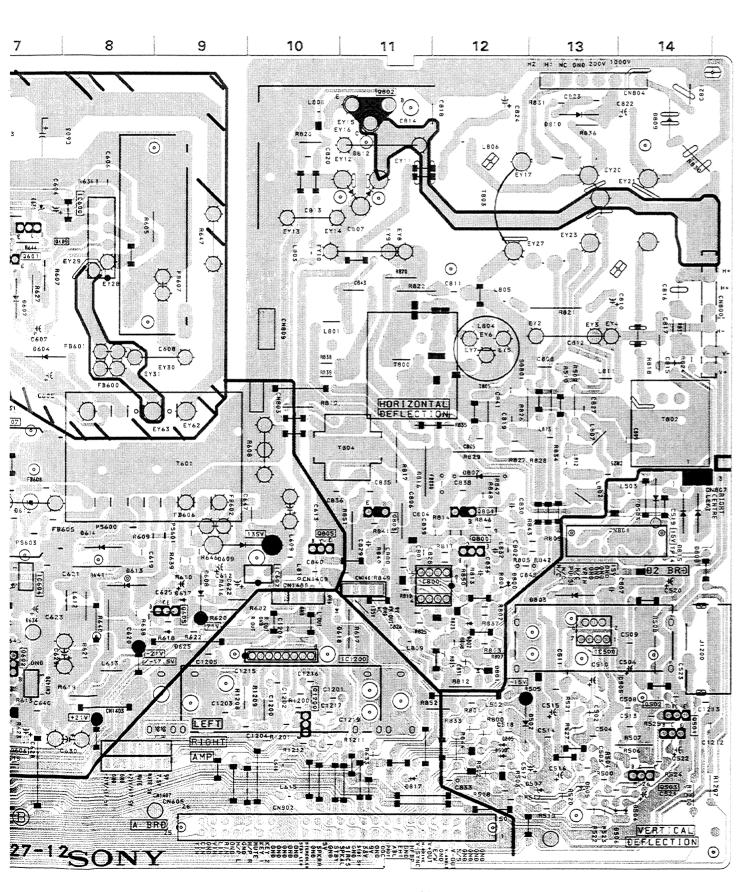
IC1201

Q803 Q805 Q900 Q1200 Q1201 Q1202

Q1203 Q1204

D500 D502 D503 D504 D505 D506

D507



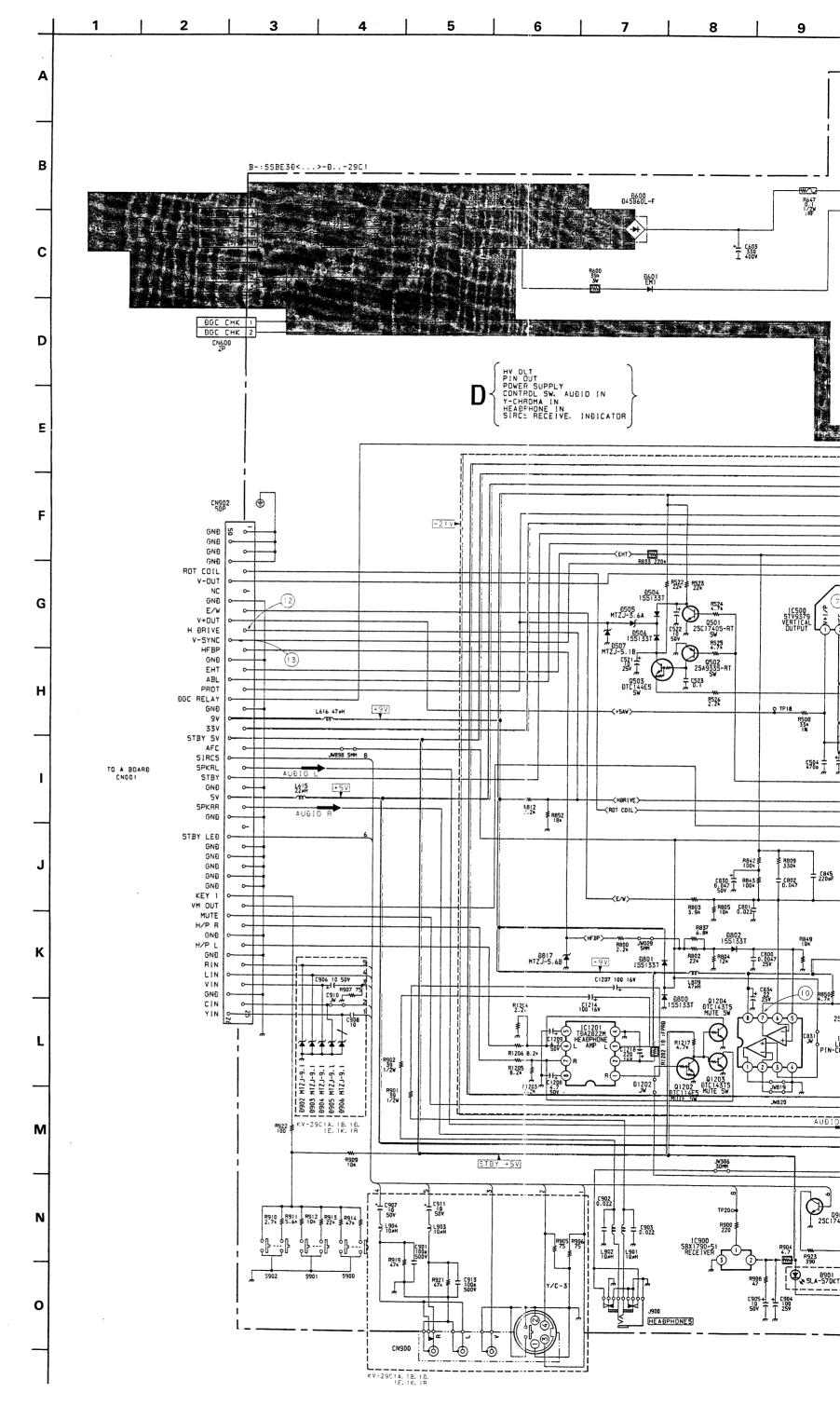


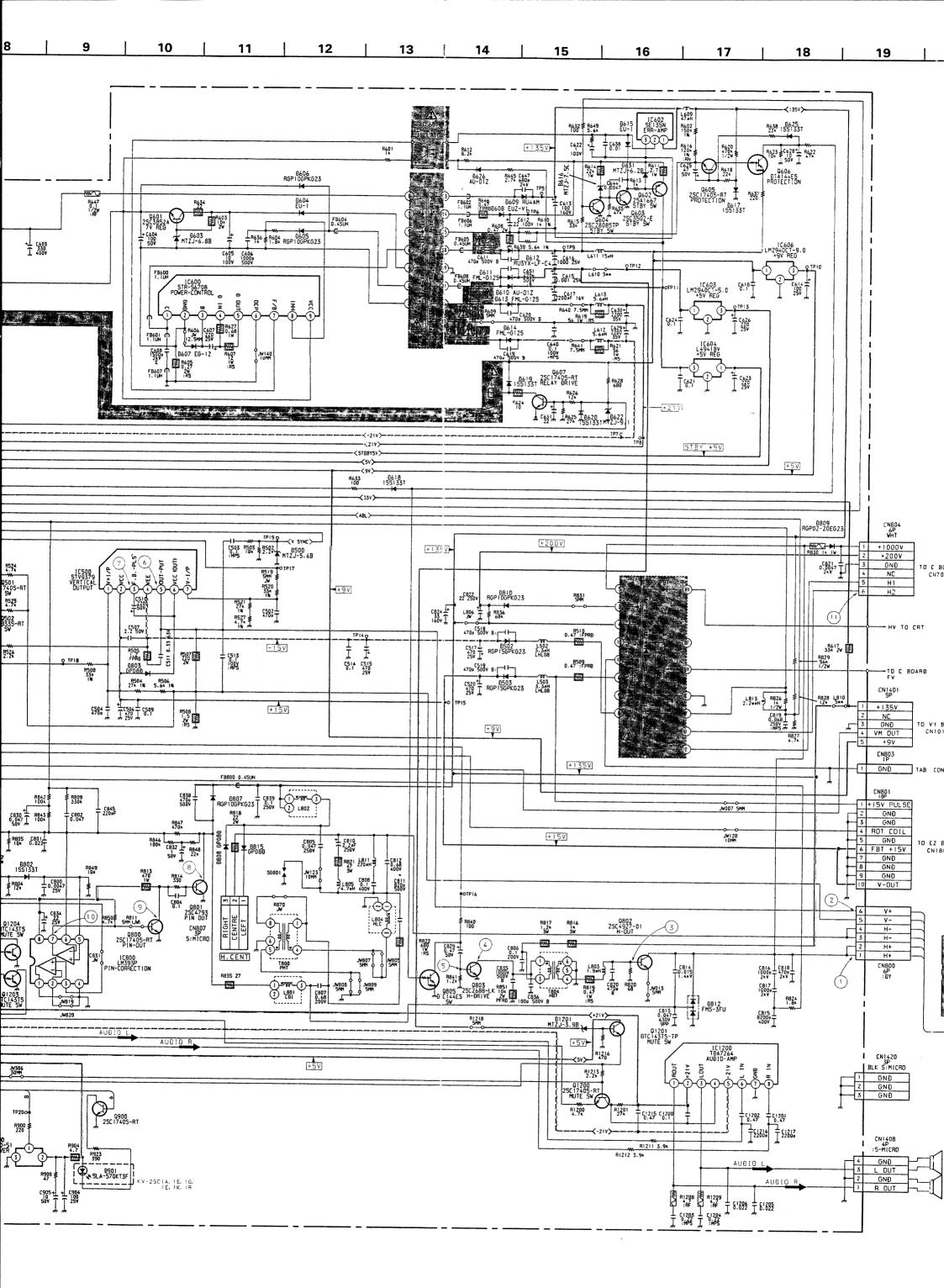
NOTE:

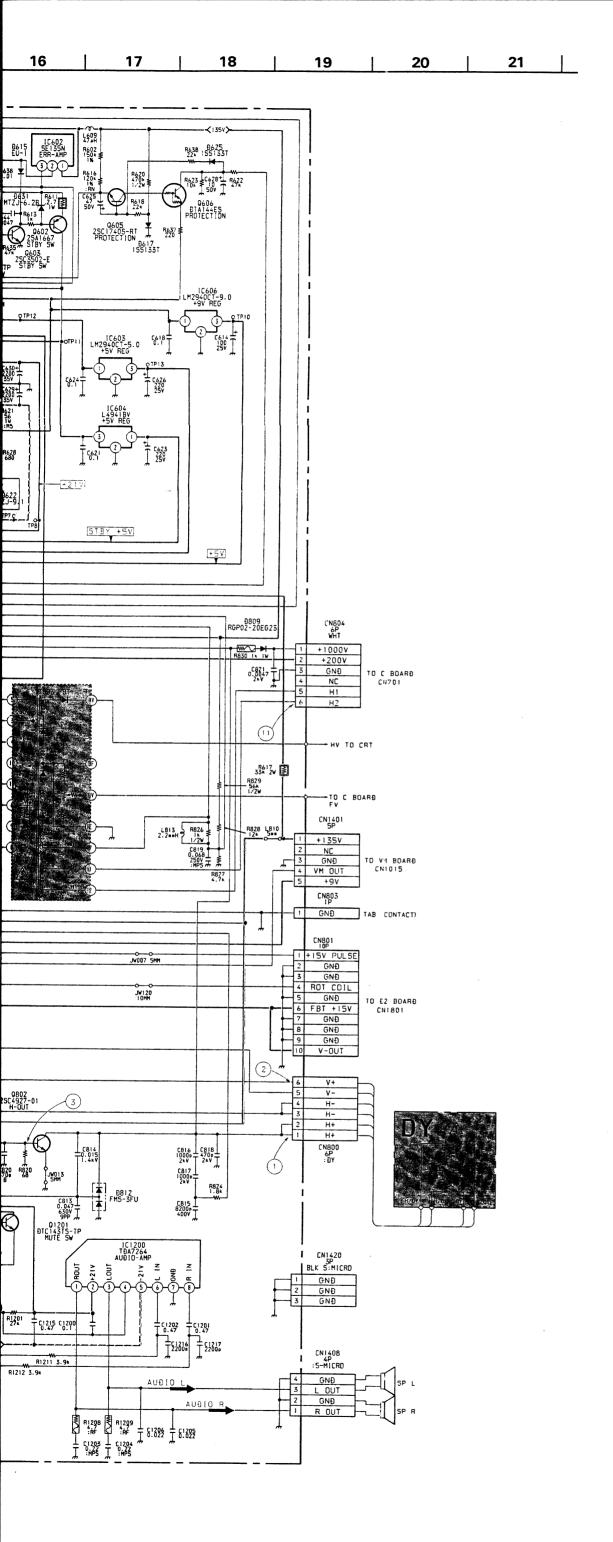
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD

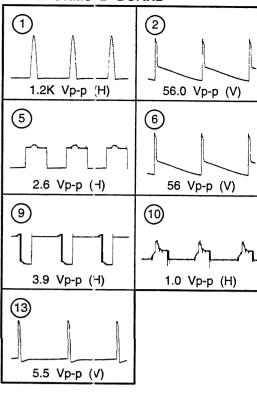
| IC | | DIODE | |
|--------|------|-------|------|
| IC500 | G-13 | D600 | A-7 |
| IC600 | B-8 | D601 | C-6 |
| IC601 | D-6 | D603 | C-7 |
| IC602 | F-10 | D604 | D-7 |
| IC603 | G-5 | D605 | C-6 |
| IC604 | F-7 | D606 | C-6 |
| IC606 | E-6 | D607 | C-7 |
| IC800 | F-12 | D608 | F-9 |
| IC900 | D-1 | D609 | F-9 |
| IC1200 | G-10 | D610 | F-7 |
| IC1201 | F-5 | D611 | F-6 |
| | | D612 | E-7 |
| TRANSI | STOR | D613 | F-8 |
| Q501 | H-14 | D614 | F-8 |
| Q502 | H-14 | D615 | H-7 |
| Q503 | H-14 | D616 | G-7 |
| Q601 | C-7 | D617 | F-9 |
| Q602 | G-7 | D618 | F-11 |
| Q603 | H-7 | D619 | E-6 |
| Q604 | G-7 | D620 | E-6 |
| Q605 | F-9 | D622 | E-6 |
| Q606 | H-7 | D625 | G-9 |
| Q607 | D-7 | D626 | G-6 |
| Q800 | F-12 | D631 | F-6 |
| Q801 | E-12 | D800 | F-12 |
| Q802 | A-11 | D801 | G-12 |
| Q803 | E-11 | D802 | G-12 |
| Q805 | F-10 | D803 | F-13 |
| Q900 | G-4 | D807 | E-12 |
| Q1200 | H-10 | D808 | E-14 |
| Q1201 | G-6 | D809 | A-14 |
| Q1202 | G-5 | D810 | A-13 |
| Q1203 | G-5 | D812 | B-11 |
| Q1204 | G-5 | D815 | E-14 |
| DIOI | DE | D817 | H-11 |
| D500 | H-12 | D901 | C-1 |
| D502 | H-13 | D902 | I-5 |
| D503 | I-14 | D903 | H-4 |
| D504 | H-11 | D904 | H-5 |
| D505 | H-13 | D905 | I-5 |
| D506 | I-14 | D906 | I-5 |
| D507 | H-13 | D1201 | G-6 |







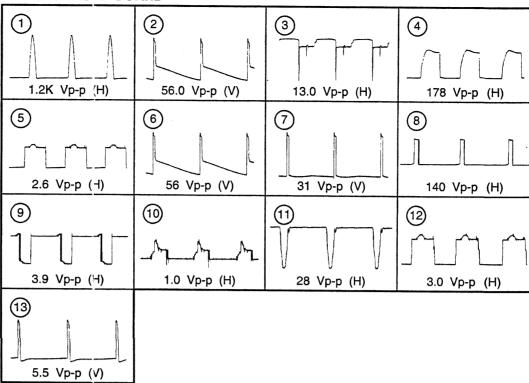
WAVEFORMS D BOARD



D BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Vo tage Table | | | | | |
|--------------------------|-----------|----------------|--------------|--|--|
| Ref No | B Base | C Collector | E Emitter | | |
| Q501 | -0.1 | 0.2 | | | |
| Q502 | 0.1 | -5.8 | - | | |
| Q503 | -5.8 | -12.0 | -12.0 | | |
| Q602 | 72.0 | 7.5 | 72.7 | | |
| Q603 | .0 | 72.0 | • | | |
| Q604 | 0.7 | - | | | |
| Q605 | 0.5 | - | 0.3 | | |
| Q606 | - | - | 12.0 | | |
| Q607 | - | 12.0 | - | | |
| Q800 | 0.2 | 3.1 | - | | |
| Q801 | 0.3 | 17.0 | - | | |
| Q802 | -0.2 | 143.3 | - | | |
| Q803 | -0.6 | 99.8 | - | | |
| Q805 | - | 3.6 | | | |
| Q900 | - | 5.4 | • | | |
| Q1200 | 2.9 | 21.5 | 4.6 | | |
| Q1201 | 3.4 | 5.0 | 3.0 | | |
| Q1202 | 2.8 | • | - | | |

WAVEFORMS D BOARD

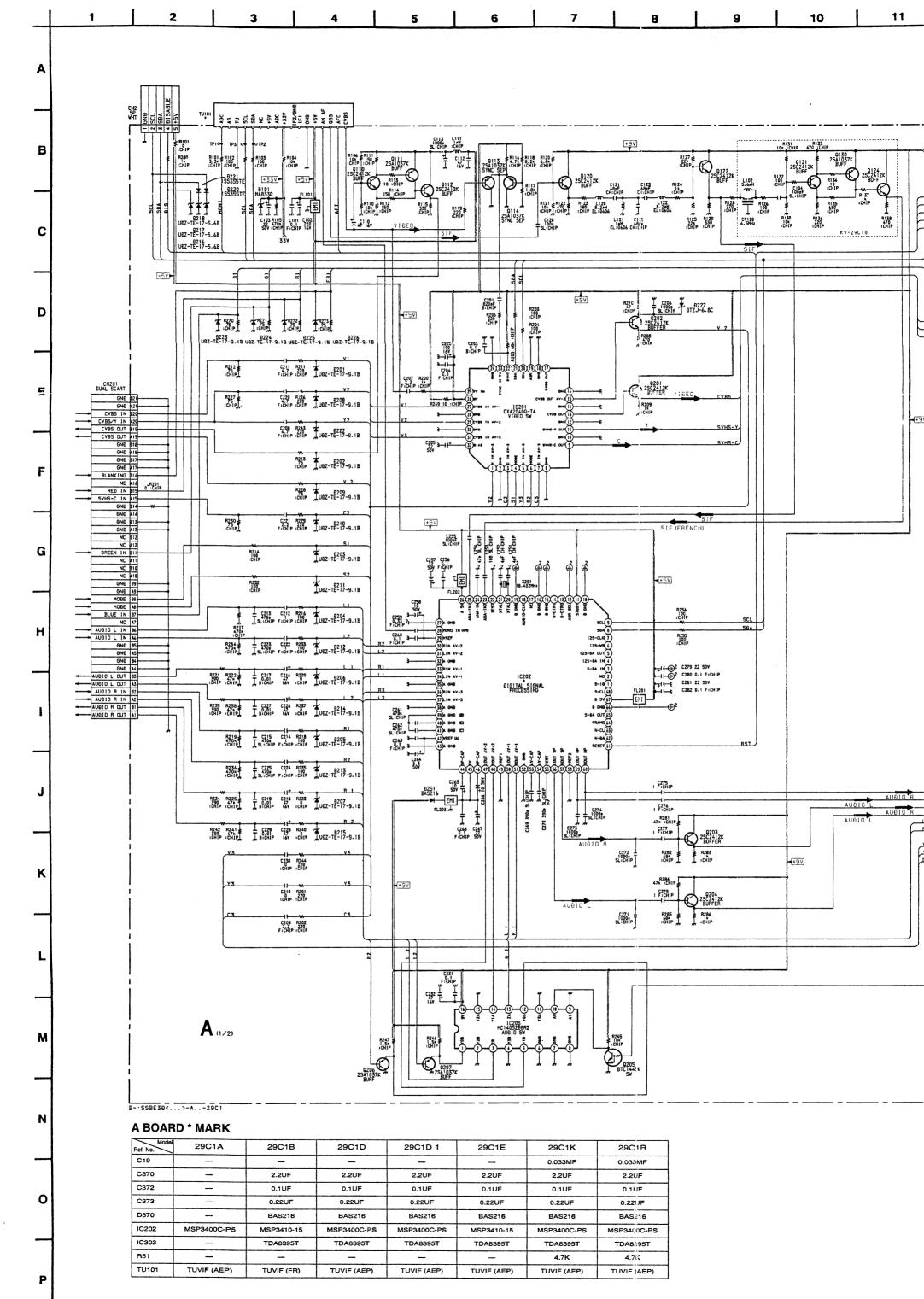


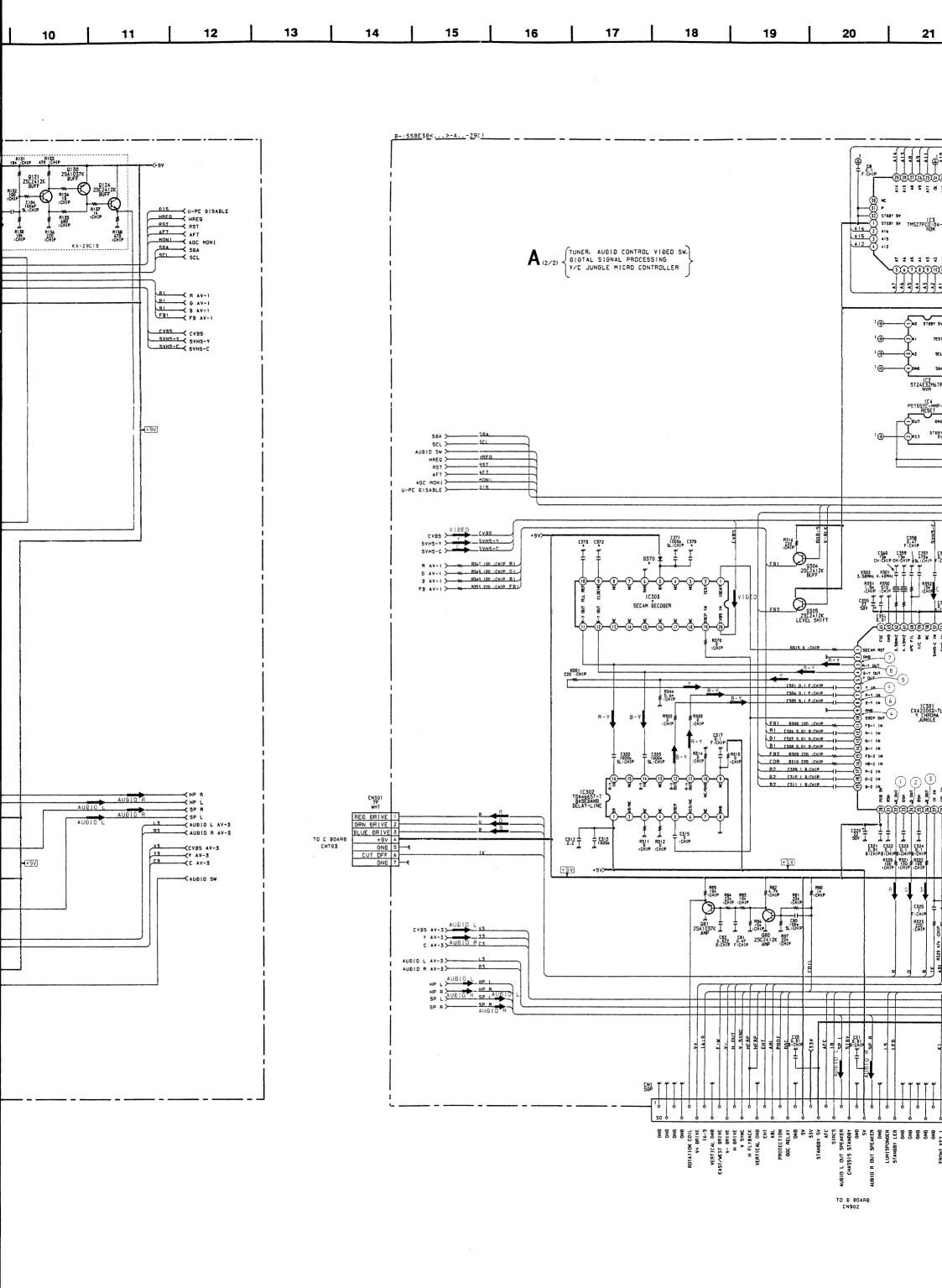
D BOARD
TRANSISTOR VOLTAGE TABLE

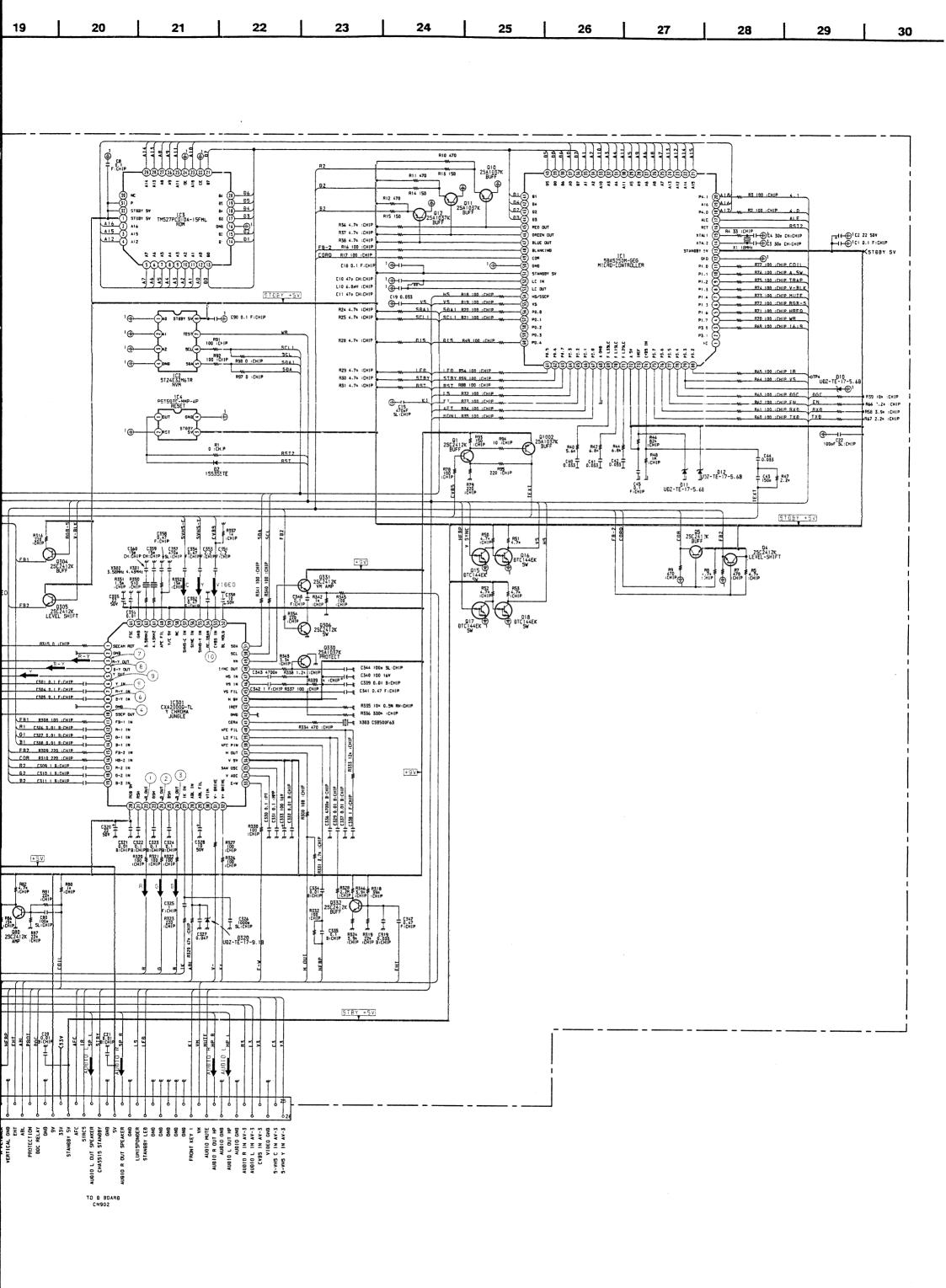
| Transistor Vo tage Table | | | | |
|--------------------------|-----------|----------------|--------------|--|
| Ref No | B Base | C Collector | E Emitter | |
| Q501 | -0.1 | 0.2 | | |
| Q502 | 0.1 | -5.8 | - | |
| Q503 | -5.8 | -12.0 | -12.0 | |
| Q602 | 72.0 | 7.5 | 72.7 | |
| Q603 | .0 | 72.0 | • | |
| Q604 | 0.7 | - | | |
| Q605 | 0.5 | - | 0.3 | |
| Q606 | - | - | 12.0 | |
| Q607 | - | 12.0 | - | |
| Q800 | 0.2 | 3.1 | | |
| Q801 | 0.3 | 17.0 | - | |
| Q802 | -0.2 | 143.3 | - | |
| Q803 | -0.6 | 99.8 | - | |
| Q805 | • | 3.6 | - | |
| Q900 | - | 5.4 | • | |
| Q1200 | 2.9 | 21.5 | 4.6 | |
| Q1201 | 3.4 | 5.0 | 3.0 | |
| Q1202 | 2.8 | - | - | |

D BOARD IC VOLTAGE TABLE

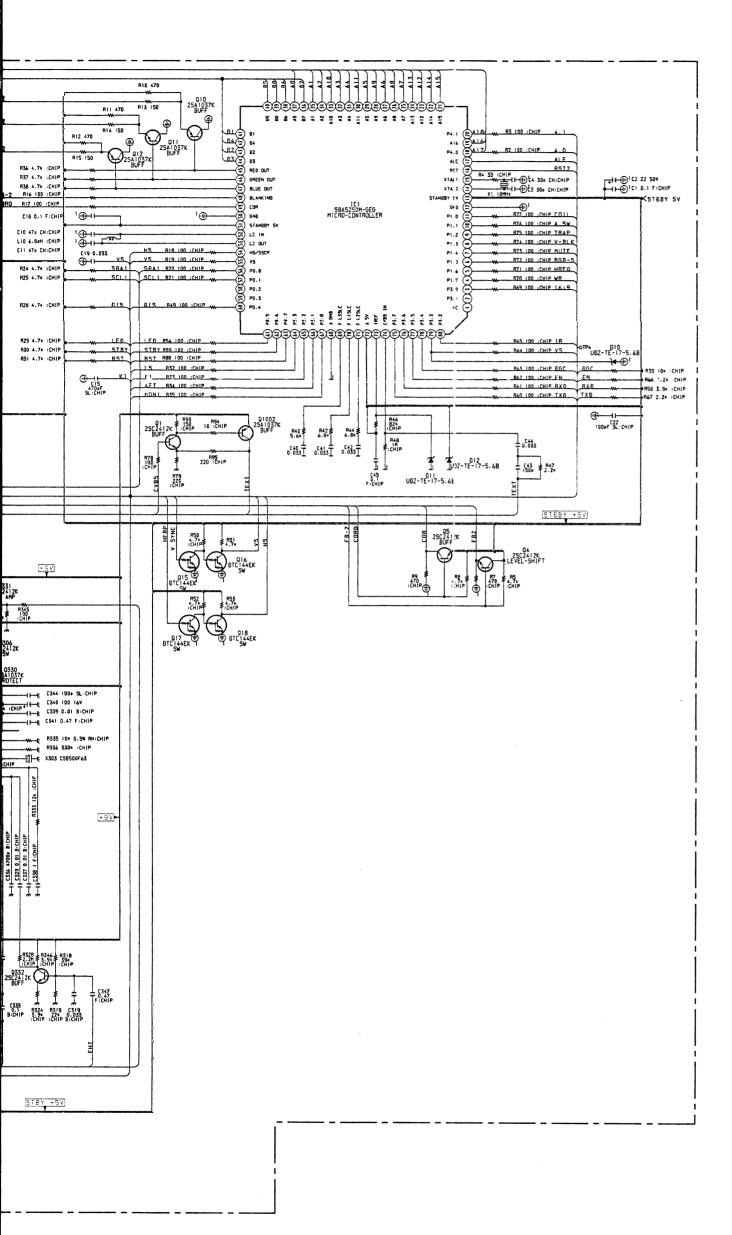
| IC Voltage Table | | | | |
|------------------|--------|-------------|--|--|
| Ref No | Pin No | Voltage (V) | | |
| | 1 | 1.5 | | |
| | 2 | 15.0 | | |
| | 3 | -12.3 | | |
| IC500 | 4 | -14.0 | | |
| | 5 | 0.1 | | |
| | 6 | 15.2 | | |
| | 7 | 1.4 | | |
| | 1 | 170.0 | | |
| | 2 | -62.4 | | |
| | 3 | -62.6 | | |
| | 4 | -62.2 | | |
| IC600 | 5 | -62.0 | | |
| | 6 | -62.6 | | |
| | 7 | -62.4 | | |
| | 8 | -62.0 | | |
| | 9 | -58.0 | | |
| | 1 | 64.3 | | |
| IC601 | 2 | 63.0 | | |
| | 3 | -62.5 | | |
| | 4 | -58.6 | | |
| | 1 | 135.0 | | |
| IC602 | 2 | 63.2 | | |
| | 3 | -0.1 | | |
| | 3 | 0.9 | | |
| | 5 | 1.5 | | |
| IC800 | 6 | 2.0 | | |
| | 7 | 0.2 | | |
| | 8 | 9.0 | | |
| | 2 | 21.7 | | |
| IC1200 | 4 | 21.5 | | |
| | 5 | -21.7 | | |
| | 1 | 4.0 | | |
| | 2 | 9.0 | | |
| IC1201 | 3 | 4.0 | | |
| | 5 | 0.5 | | |
| | 8 | 0.5 | | |
| | | | | |











A (1/2) BOARD IC VOLTAGE TABLE

| IC Voltage Table | | | | |
|------------------|--------|-------------|--|--|
| Ref No | Pin No | Voltage (V) | | |
| | 13 | 4.4 | | |
| | 15 | 4.4 | | |
| | 20 | 3.5 | | |
| | 21 | 2.7 | | |
| | 22 | 4.9 | | |
| IC201 | 23 | 4.4 | | |
| | 24 | 0 | | |
| | 25 | 4.4 | | |
| | 26 | 8.8 | | |
| | 32 | 4.4 | | |
| | 4 | 2.8 | | |
| | 6-7 | 0.1 | | |
| | 8 | 3.0 | | |
| | 9 | 3.6 | | |
| | 11 | 4.7 | | |
| | 13 | 4.7 | | |
| | 20-21 | 2.4 | | |
| | 23 | 0.2 | | |
| IC202 | 25 | 1.5 | | |
| 10202 | 26 | 4.8 | | |
| | 28 | 3.8 | | |
| | 29 | 2.6 | | |
| | 39-42 | 3.8 | | |
| | 44 | 7.1 | | |
| | 45 | 8.0 | | |
| | 46 | 7.1 | | |
| | 47-48 | 3.8 | | |
| | 53-54 | 3.8 | | |

A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

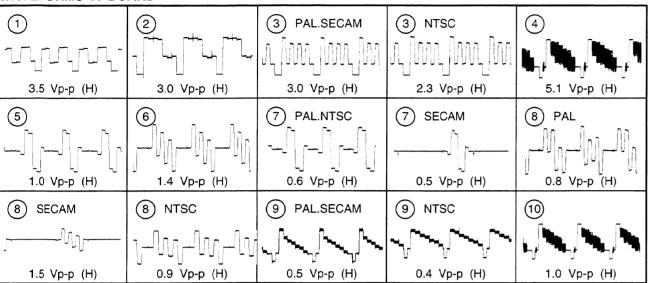
| Transistor Voltage Table | | | | | | | |
|--------------------------|-----------------------|-----|-----|--|--|--|--|
| Ref No | No Base Collector Emi | | | | | | |
| ā | 3.7 | 4.8 | 3.1 | | | | |
| Q4 | 0.1 | 4.8 | • | | | | |
| Q5 | 0.7 | 4.8 | 4.0 | | | | |
| Q15 | - | 4.3 | - | | | | |
| Q16 | 4.3 | 0.2 | - | | | | |
| Q17 | 0.4 | 3.5 | - | | | | |
| Q18 | 3.5 | 0.7 | - | | | | |
| Q80 | 2.6 | 2.2 | - | | | | |
| Q81 | 2.4 | - | 3.0 | | | | |
| Q304 | - | 4.8 | - | | | | |
| Q305 | - | 4.8 | • | | | | |
| Q330 | 4.5 | | 5.1 | | | | |
| Q331 | 6.3 | 8.8 | 5.7 | | | | |
| Q332 | 3.1 | 8.8 | 2.5 | | | | |
| Q1001 | 4.4 | - | - | | | | |

A (1/2) BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Voltage Table | | | | | | |
|--------------------------|-------------------------|-----|-----|--|--|--|
| Ref No | Ref No Base C Collector | | | | | |
| Q110 | 1.8 | 8.2 | 1.2 | | | |
| Q112 | 1.5 | 8.8 | 0.8 | | | |
| Q113 | 1.8 | - | | | | |
| Q114 | 5.4 | 6.0 | - | | | |
| Q120 | 84.3 | 8.8 | 3.7 | | | |
| Q121 | 1.5 | 5.4 | 0.9 | | | |
| Q122 | 5.4 | 8.8 | 4.7 | | | |
| Q124 | - | 8.8 | - | | | |
| Q201 | 4.4 | 8.8 | 3.7 | | | |
| Q202 | 4.4 | 8.8 | 3.7 | | | |

KV-29C1 KV-29C1

WAVEFORMS A BOARD

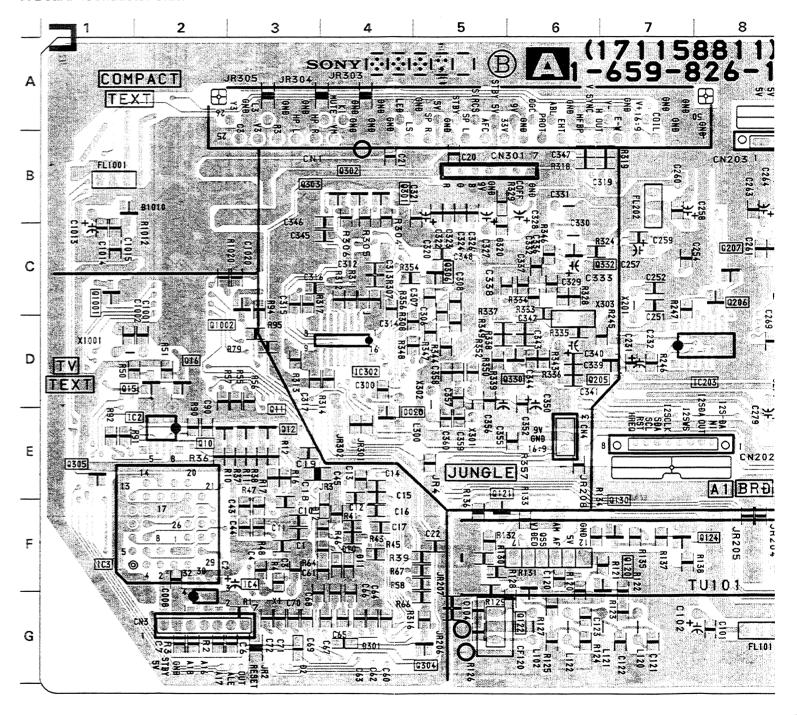


| Δ | (2/2) | BOARD | IC VOL | TAGE | TARIF |
|---|-------|--------------|--------|------|-------|
| m | (2/2) | DUAND | IC VOL | IAGE | IADLL |

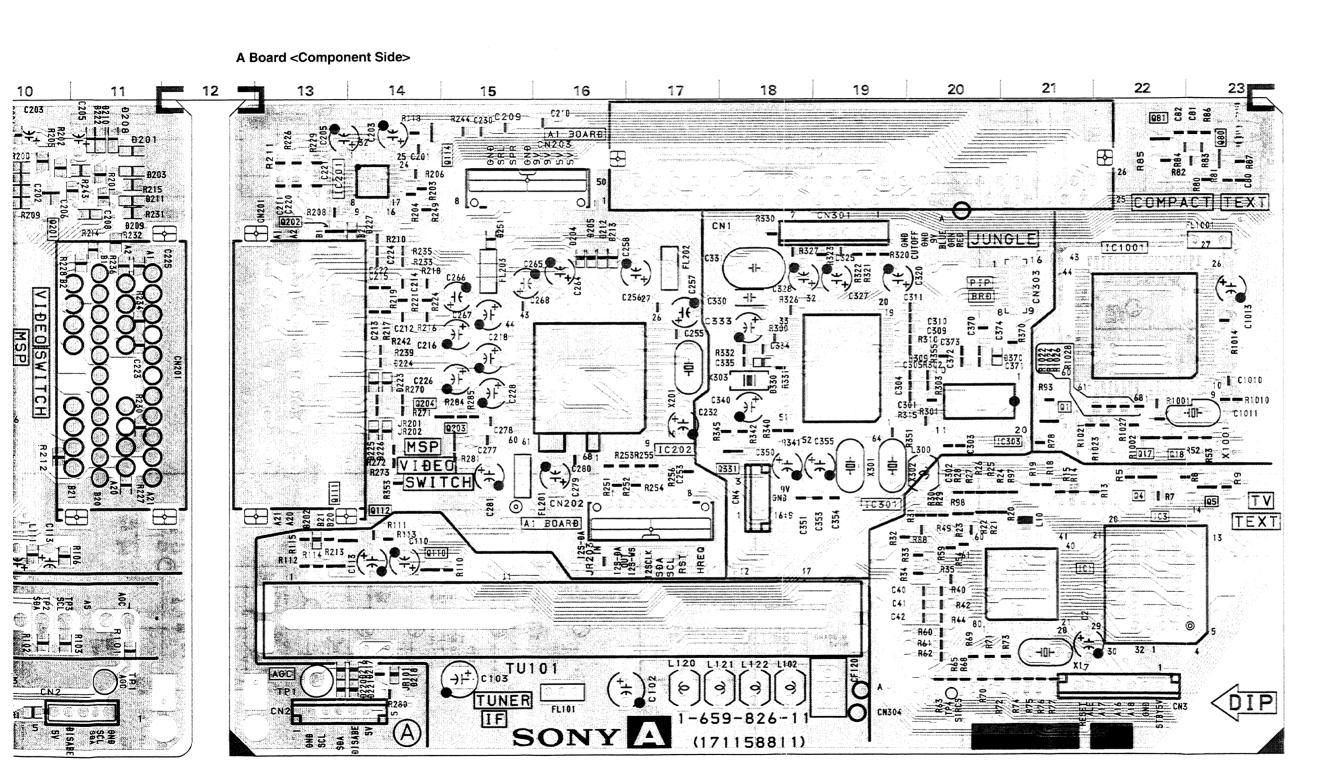
| Ref No | Pin No | Voltage (V) | Ref No | Pin No | Voltage (V) | Ref No | Pin No | Voltage (V) |
|--------|--------|-------------|--------|--------|-------------|----------|--------|-------------|
| | 2 | 3.6 | + | 5 | 3.6 | | 61 | 5.0 |
| | 3-4 | 4.8 | 1 | 6 | 5.0 | IC301 | 62 | 7.6 |
| | 5 | 0.5 | 1 | 7-8 | 5.4 | | 1 | 4.8 |
| | 7 | 4.8 | 1 | 10 | 0.6 | 1 | 5 | 0.7 |
| | 9 4.8 | 12-14 | 5.4 | 1 | 9 | 4.8 | | |
| | 11 | 2.4 | 1 | 16 | 4.0 | IC302 | 11-12 | 3.0 |
| | 13 | 4.8 | 1 | 17-19 | 5.4 | 1 | 14 | 1.3 |
| | 14-15 | 2.3 | 1 | 20 | 8.8 | 1 | 16 | 1.3 |
| | 16-17 | 4.8 | 1 | 22-23 | 2.2 | T | 5 | 8.0 |
| | 48 | 4.0 | 1 | 24 | 2.0 | 1 | 3.2 | 10 |
| | 51 | 4.8 | 7 | 25 | 2.4 | 1 | 11 | 5.6 |
| | 52-53 | 2.4 | 7 | 26 | 2.0 | IC303 | 0 | 19 |
| | 54 | 0.7 | 7 | 27 | 4.0 | 7 | 20 | 3.7 |
| | 55 | 0.2 | 7 | 28 | 6.6 | 1 | 4 | 0.2 |
| | 56-57 | 4.8 | 7 | 29 | 8.8 | | 5 | 0.7 |
| IC1 | 58 | 2.8 | 1 | 31-33 | 3.0 | | 4 | 0.2 |
| | 59 | 3.5 | 1 | 34 | 4.0 | 1 | 5 | 0.7 |
| | 60 | 2.4 | 7 | 35 | 4.6 | 7 | 6 | 1.7 |
| | 62 | 0.7 | IC301 | 36 | 8.8 | 7 | 7 | 1.8 |
| | 63 | 4.4 | 1 | 37 | 3.1 | 1 | 10 | 0.4 |
| | 65 | 4.8 | 7 | 38 | 3.4 | 7 | 11-12 | 4.8 |
| | 66 | 2.1 | 7 | 39 | 5.3 | 7 | 16 | 4.8 |
| | 67 | 2.0 | 7 | 40 | 4.2 | 7 | 17 | 0 |
| | 69-71 | 2.3 | 1 | 41 | 2.3 | IC1001 | 21 | 4.8 |
| | 72 | 4.8 | | 43 | 1.7 | 7 101001 | 23 | 3.0 |
| | 73 | 1.5 | | 44 | 8.8 | | 25 | 4.8 |
| | 74 | 1.2 | | 45 | 2.5 | | 56 | 0 |
| | 75-77 | 4.8 | _ | 46 | 3.9 | | 61 | 1.3 |
| | 79 | 0.2 |] | 47 | 3.0 | | 62-63 | 1.4 |
| | 80 | 4.8 | J | 48 | 4.4 | | 64 | 0 |
| IC2 | 5-8 | 4.8 | | 49 | 6.3 | | 66 | 4.6 |
| IC3 | 1 ' | 4.8 | | 50-51 | 0.1 | | 67 | 4.7 |
| 103 | 31-32 | 4.8 | | 53 | 3.9 | | 68 | 4.0 |
| IC4 | 1 | 4.8 | | 54 | 5.0 | | | |
| 104 | 3 | 4.8 | | 55-56 | 4.2 | _ | | |
| IC301 | 1 | 1.5 | | 58-59 | 8.8 | _ | | |
| 10301 | 3-4 | 5.6 | | 60 | 5.3 | | | |



A Board < Conductor Side>



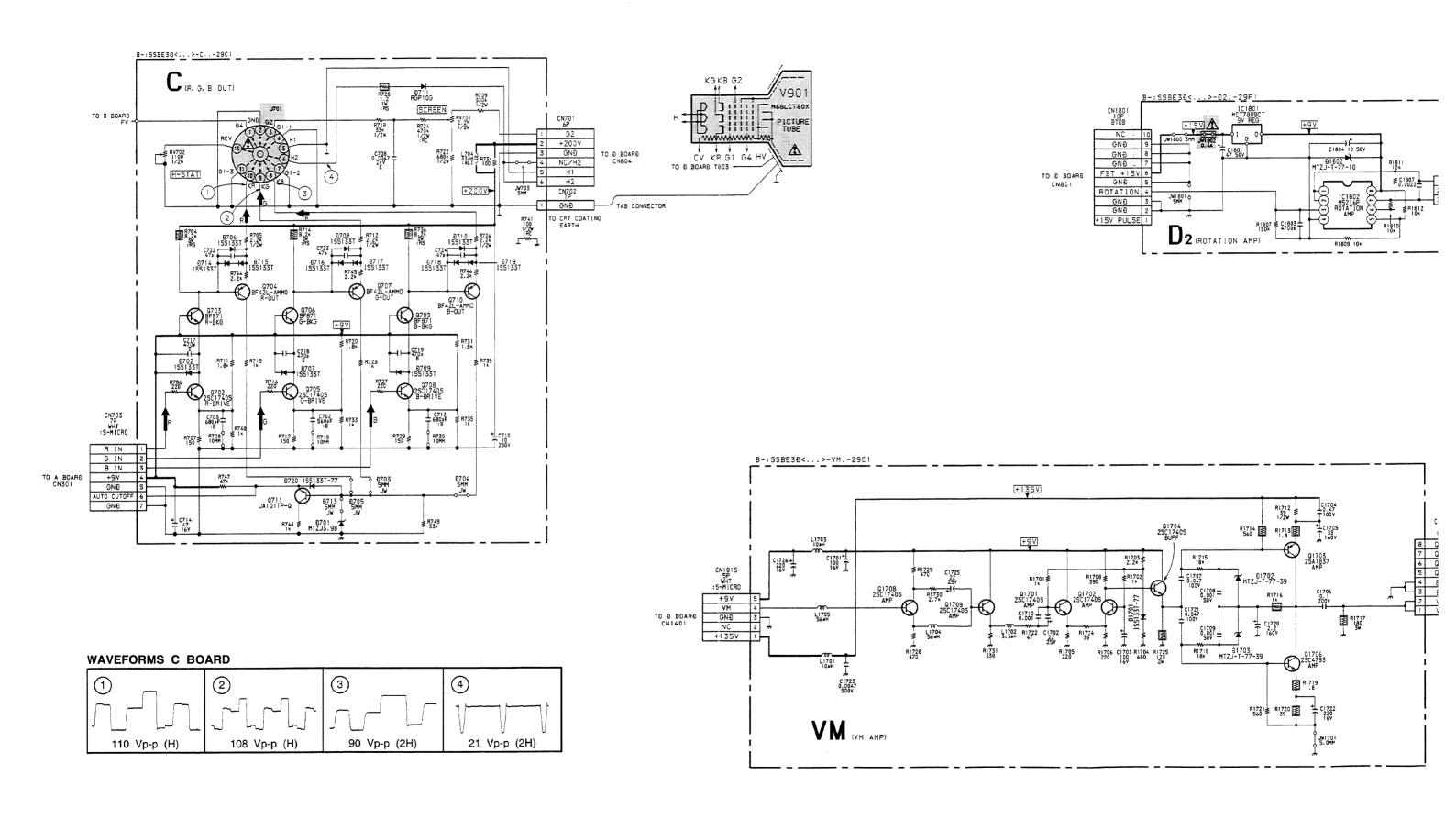
A Board < Component Side> 18 19 16 AL BOARD CN203 CN203 L ₽2**09** R2**32** C25627 €255 R332 E334 C335 E ŧ 5304 9 IC202 VIĐEO S CN202 10 <u></u> CN202 A1 BRĐ C40 €41 ° 1 C42 TU101 C103 FL101 IF IF -659-826-1 (171158811)



A BOARD

| A BOARD | | | | | | |
|---------|------|-------|------|--|--|--|
| IC | | Q305 | E-1 | | | |
| IC1 | F-21 | Q306 | C-5 | | | |
| IC2 | E-2 | Q330 | D-6 | | | |
| IC3 | F-2 | Q331 | D-18 | | | |
| IC4 | G-2 | Q332 | C-6 | | | |
| IC201 | A-14 | Q1002 | C-3 | | | |
| IC202 | C-16 | DIOD | E | | | |
| IC203 | D-8 | D2 | G-3 | | | |
| IC301 | C-19 | D10 | F-10 | | | |
| IC302 | D-4 | D11 | F-10 | | | |
| IC303 | D-21 | D12 | F-4 | | | |
| TRANSIS | STOR | D101 | F-9 | | | |
| Q1 | D-21 | D201 | A-11 | | | |
| Q4 | E-22 | D202 | E-13 | | | |
| Q5 | E-23 | D203 | A-11 | | | |
| Q10 | E-2 | D204 | B-16 | | | |
| Q11 | E-3 | D205 | B-16 | | | |
| Q15 | D-2 | D206 | C-9 | | | |
| Q16 | D-2 | D207 | C-9 | | | |
| Q17 | D-22 | D208 | A-11 | | | |
| Q18 | D-23 | D209 | B-11 | | | |
| Q80 | A-23 | D210 | A-11 | | | |
| Q81 | A-22 | D211 | B-11 | | | |
| Q110 | F-14 | D212 | B-16 | | | |
| Q111 | E-14 | D213 | B-16 | | | |
| Q112 | E-14 | D214 | D-9 | | | |
| Q113 | A-10 | D215 | D-9 | | | |
| Q114 | A-14 | D216 | G-14 | | | |
| Q120 | F-7 | D217 | G-14 | | | |
| Q121 | F-5 | D218 | G-14 | | | |
| Q122 | F-6 | D220 | G-14 | | | |
| Q124 | F-7 | D221 | D-14 | | | |
| Q130 | F-7 | D222 | D-14 | | | |
| Q201 | B-10 | D223 | D-14 | | | |
| Q202 | B-13 | D224 | D-14 | | | |
| Q203 | D-15 | D225 | D-14 | | | |
| Q204 | D-15 | D226 | D-14 | | | |
| Q205 | D-7 | D227 | B14 | | | |
| Q206 | C-8 | D251 | B-15 | | | |
| Q207 | C-8 | D320 | C-5 | | | |
| Q304 | G-5 | D370 | C-21 | | | |

KV-29C1 KV-29C1



B-:SSBE30<...>-02.-29F

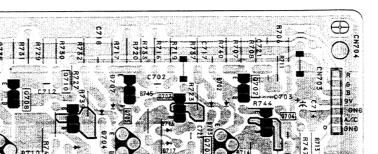
D2 (ROTATION AMP)

CN1801 10P BTOB

GNÐ GNÐ GNÐ FBT +15V 6

TO & BOARS CN801

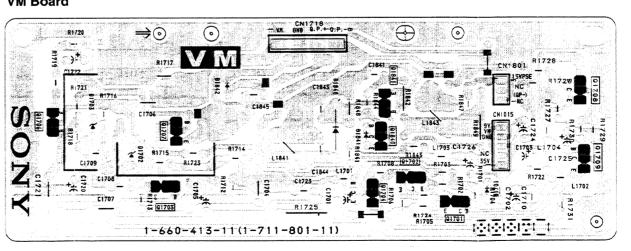
D2



(1-7/10-957-11) 1-688-225-11

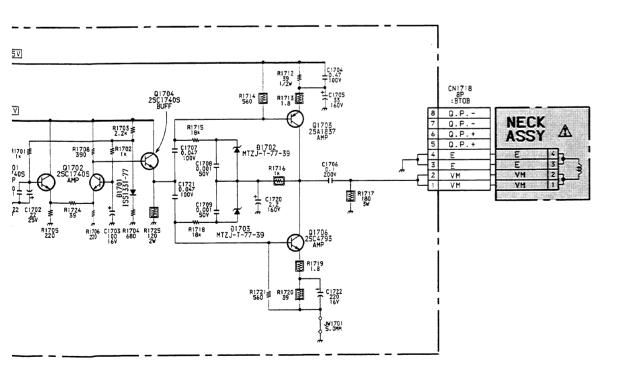
TO ROTATION

VM Board



C BOARD TRANSISTOR VOLTAGE T.

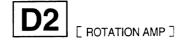
| Transistor Voltage Table | | | | | |
|--------------------------|-----------|----------------|----|--|--|
| Ref No | B Base | C Collector | Em | | |
| Q702 | 2.0 | 11.4 | 1 | | |
| Q703 | 12.0 | 168.3 | 11 | | |
| Q704 | 168.3 | 6.0 | 16 | | |
| Q705 | 1.7 | 11.4 | 1 | | |
| Q706 | 12.0 | 178.8 | 11 | | |
| Q707 | 178.2 | 6.2 | 17 | | |
| Q708 | 2.0 | 11.4 | 1 | | |
| Q709 | 12.0 | 168.3 | 11 | | |
| Q710 | 168.0 | 6.4 | 16 | | |



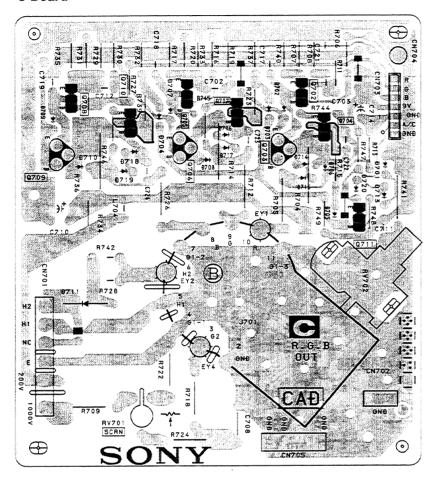
C1804 10 50V



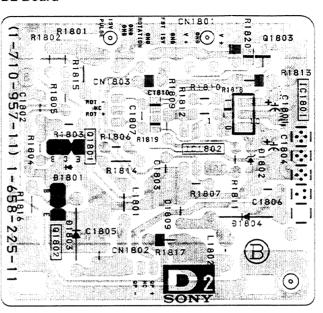




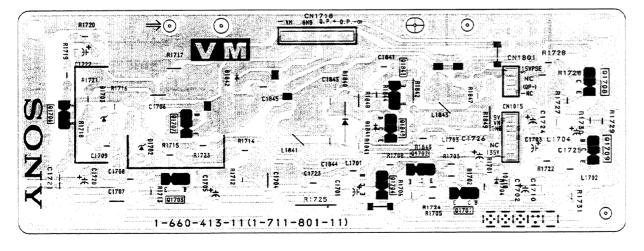
C Board



D2 Board



VM Board



C BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Voltage Table | | | | | | |
|--------------------------|-----------------------|-------|-------|--|--|--|
| Ref No | Ref No Base Collector | | | | | |
| Q702 | 2.0 | 11.4 | 1.4 | | | |
| Q703 | 12.0 | 168.3 | 11.4 | | | |
| Q704 | 168.3 | 6.0 | 163.5 | | | |
| Q705 | 1.7 | 11.4 | 1.2 | | | |
| Q706 | 12.0 | 178.8 | 11.4 | | | |
| Q707 | 178.2 | 6.2 | 173.8 | | | |
| Q708 | 2.0 | 11.4 | 1.4 | | | |
| Q709 | 12.0 | 168.3 | 11.4 | | | |
| Q710 | 168.0 | 6.4 | 160.0 | | | |

VM BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Voltage Table | | | | | | | | |
|--------------------------|-----------|----------------|--------------|--|--|--|--|--|
| Ref No | B Base | C Collector | E Emitter | | | | | |
| Q1701 | 2.5 | 8.8 | 1.8 | | | | | |
| Q1702 | 2.5 | 5.5 | 1.8 | | | | | |
| Q1703 | 134.3 | 71.8 | 134.8 | | | | | |
| Q1704 | 5.5 | 8.8 | 4.8 | | | | | |
| Q1706 | 1.0 | 71.8 | 0.4 | | | | | |
| Q1707 | 0.7 | - | - | | | | | |
| Q1708 | 2.9 | 6.6 | 2.2 | | | | | |
| Q1709 | 2.2 | 8.8 | 1.5 | | | | | |
| Q1840 | 0.6 | | - | | | | | |

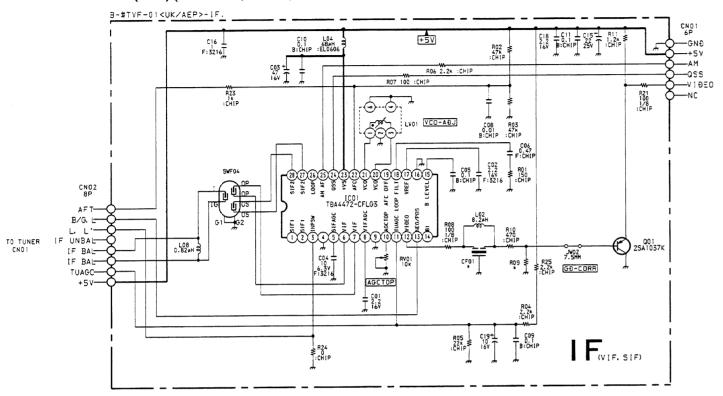
D2 BOARD IC VOLTAGE TABLE

| IC Voltage Table | | | | | | | |
|------------------|--------|-------------|--|--|--|--|--|
| Ref No | Pin No | Voltage (V) | | | | | |
| | 1-2 | 2.8 | | | | | |
| | 3 | 3.0 | | | | | |
| IC1802 | 5-6 | 4.4 | | | | | |
| 10 1002 | 7 | 6.2 | | | | | |
| | 8 | 9.0 | | | | | |

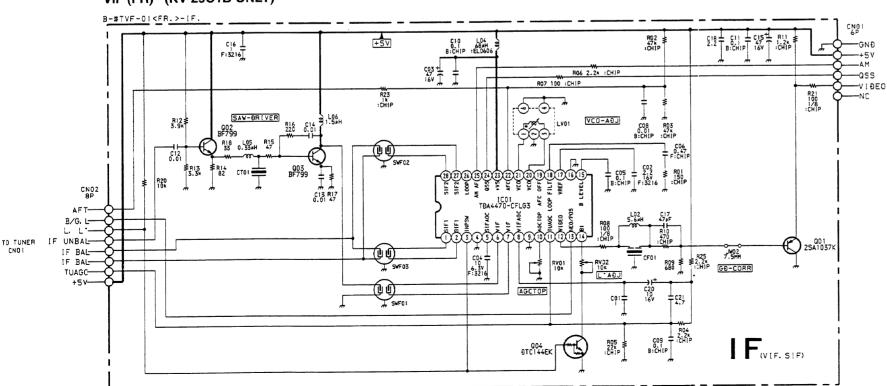
KV-29C1

KV-29C1

VIF (AEP) (KV-29C1A, 29C1D, 29C1D 1, 29C1E, 29C1K ONLY)



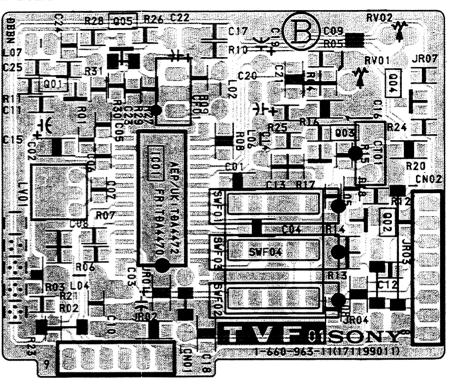
VIF (FR) (KV-29C1B ONLY)



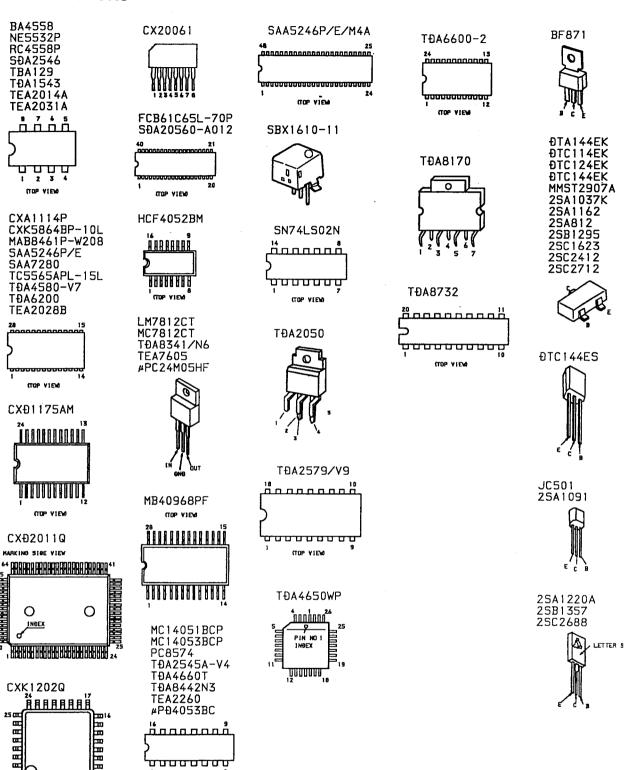
— 63 **—**



IF Board



5-4. SEMICONDUCTORS



CLOS ATEM

BABBABABA

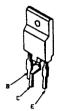
25B734 25Đ773 25Đ774



2SC2785



25£1548



2501941

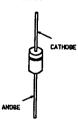


2S02096



IBE

BR405B BB809 ERC06-155 ERC25-065 RGP10G RU-3AM



CTU-125



ĐAN202K ĐAN212K MA152WK 152837





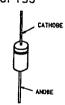
ĐA204K 1S226



04SB60L-F



EGP20G GP08Đ RGP02-17 RGP15J



ERÐ29-08J





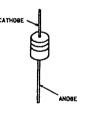
L0-201VR



MA3056M MA3110 MA3036H MA3068M RÐ11M-B2 RÐ3.6M-B2 RÐ5.6M-B2 RÐ6.8M-B2



MTZJ-13B MTZJ-15A MTZJ-33A MTZJ-3.9B MTZJ-3.9B MTZJ-5.6B MTZJ-5.6C MTZJ-7.5C MTZJ-7.5C MTZN-10C RD5.6ESB2 RD5.6ESB2 RD6.8ESB2 RD6.8ESB2 RD7.5ESB2 RD7.5ESB3 UZ4.7BSC 155119 155133 MTZJ-13B

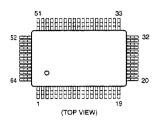


U05G



5-4. SEMICONDUCTORS

CXA2000Q-TL



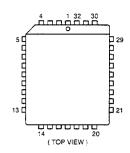
MC14052BDR2



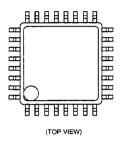
ST24E32M6TR



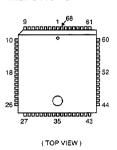
TMS27PC010A-15FML



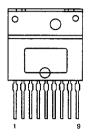
CXA2040Q-T4



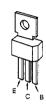
MSP3400C-PS MSP3410-15



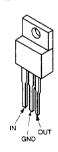
STR-S6708



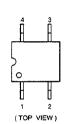
BF871-127



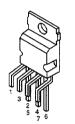
L4941BV



PST593C-MMP-4P



STV9379



BF421L-AMMO JA101TP-Q 2SA733-K 2SA933AS 2SA933S 2SA1091-O 2SC3502-F 2SC2808STP-R



LM393P M5216P TDA2822M µPC393C

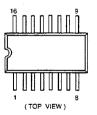


SBX1790-51



SDA5250M-GEG

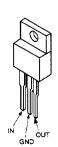
TDA4665T-T



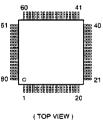
DTA144ES DTC114ES DTC143TS DTC144ES 2SC1740S-RT



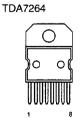
LM2940CT-5.0 LM2940T-9.0 MCT7809CT NJM78M09FA µPC2405HF



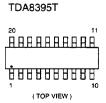
SE135N



21



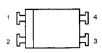
.



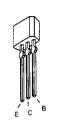
DTC144EK 2SA1037K 2SA1162-G 2SC2412K



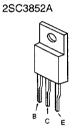
TLP721(D4-)



2SA1175-HFE 2SC2785-HFE



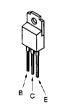
2SA1667 2SA1837



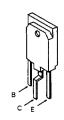
2SC2688-LK



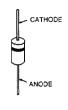
2SC4793



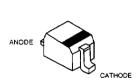
2SC4927-01



AU-01Z-V1 GP08D EG-1Z-V1 RGP02 EGP20G RGP10GPKG23 RGP15GPKG23 EL1Z **RU3YX** EM1-V1 EU-1-V1 RU4AM-T3 EU2-V1 RU4DS FML-G12S

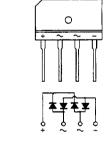


MA8330 BAS216 DTZ6.8C 1SS355 UDZ-TE-17-5.6B DTZ9.1 UDZ-TE-17-9.1B

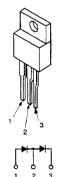


D4SB60L

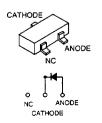
DTZ33B



FMS-3FU

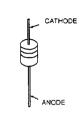


MA3030H(TX)



RD3.9ESB2 MTZJ-3.6A RD5.1ESB2 MTZJ-3.9B MTZJ-5.1B RD5.6ESB2 RD6.2ESB2 MTZJ-5.6B RD6.8ESB2 MTZJ-6.2B RD7.5ESB2 MTZJ-6.8B MTZJ-7.5C RD10ESB2 MTZJ-T-77-9.1A

MTZJ-10 RD39ES-B2 MTZJ-39C 1SS133T-77



SLA-570KT3F



SECTION 6 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items

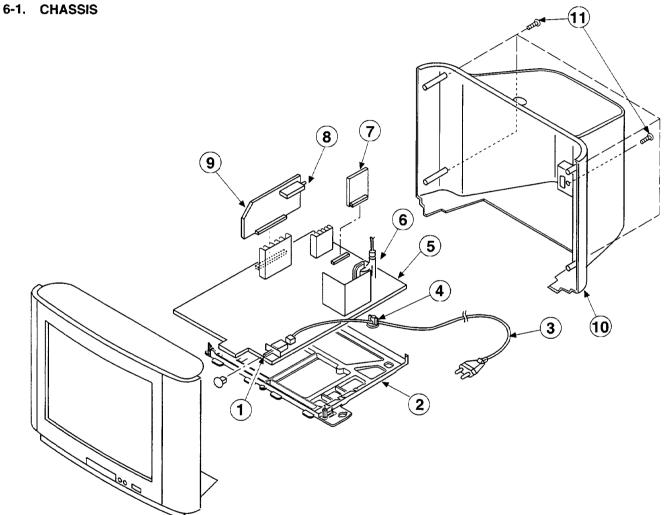
The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.
Ne les remplacer que par une piece

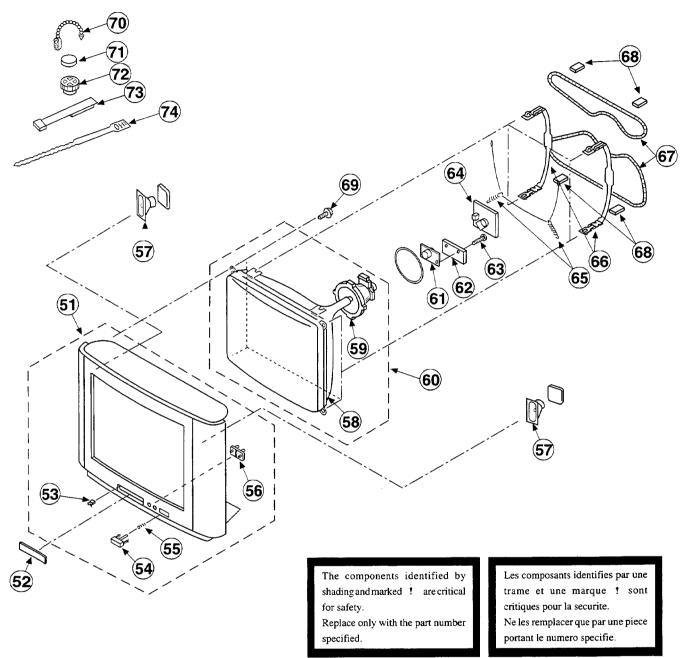
portant le numero specifie.

items.



| REF NO | PART NO | DESCRIPTION | REMARK | REF NO | PART NO | DESCRIPTION | REMARK |
|--------------------|--|--|--|---------------|---|--|--|
| 2 3 A A 4 5 ** 6 A | 1-571-433-21 4-202-998-11 1-751-680-11 1-690-270-21 4-202-531-01 A-1642-165-A A-1642-188-A 1-453-169-11 A-1640-214-A | SWITCH, PUSH (AC POWER) BRACKET, MAIN CORD, POWER (WITH NOISE FILT 2.5A/250V (KV-29C1A/29C1D CORD, POWER (WITH COMNECTOR) 2.5A/250V(KV-29C1B/29C1E/29C AC CORD LOCK (SC) D BOARD, COMPLETE (KV-29C1A/29C1B/29C1D/29C1 29C1R) D BOARD, COMPLETE (KV-29C1D TRANSFORMER ASSY, FLYBACK (U D2 BOARD, COMPLETE | 1/29C1D 1) 1/29C1D 1) 1/29C1R) 1/29C1R/ 1) | 9 10 11 | 1-693-338-11 1-693-340-11 *A-1632-423-A *A-1632-425-A *A-1632-424-A *A-1632-426-A *A-1632-427-A 4-039-358-01 | TUNER/VIF (AEP) (KV-29C1A/29C1D/29C1D 1 29C1R) TUNER/VIF (FR) (KV-29C1E A BOARD, COMPLETE (KV-29 COVER, REAR SCREW (4x16), (+) BV TAE | C1A) C1B) C1D/29C1D 1) C1E) C1K) C1R) |

6-2. PICTURE TUBE



| REF NO | PART NO | DESCRIPTION R | EMARK | REF NO | PART NO | DESCRIPTION RE | MARK |
|------------|---------------|--------------------------------|---------|--------|---------------|--------------------------------|------|
| 51 | X-4200-253-1 | | 3-56 | 64 | *A-1638-082-A | C BOARD, COMPLETE | |
| 52 | 4-203-340-01 | DOOR | | 65 | 4-369-318-31 | SPRING, TENSION | |
| 53 | 4-392-036-01 | CATCHER, PUSH | | 66 | 4-202-415-01 | CLIP, DGC (29") | |
| | | (KV-29C1A/29C1B/29C1D/29C1E/ | /29C1K/ | 67 🗘 | 1-406-807-11 | COIL, DEGAUSSING | |
| | | 29C1R) | | 68 | *4-203-390-01 | CUSHION, DGC | |
| | 4-047-464-01 | CATCHER, PUSH (KV-29C1D 1) | | 69 | 4-036-188-01 | SCREW (M), PT | |
| 54 | 4-203-339-01 | BUTTON, POWER | | 70 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 5 5 | 4-202-964-01 | SPRING | | 71 | 1-452-032-00 | MAGNET, DISK; 10MM Ø | |
| 56 | *4-203-338-11 | GUIDE, LIGHT | | 72 | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM Ø | |
| 57 | 1-504-146-11 | SPEAKER (5x11CM) | | 73 | X-4387-214-1 | PERMALLOY ASSY, CORRECTION | |
| 58 | 8-733-856-05 | PICTURE TUBE (SD-269) (M68LCT6 | 0X) | 74 | 3-701-007-00 | BAND, BINDING | |
| 59 | 8-451-467-11 | DEFLECTION YOKE (Y29GXA2B) | | | | | |
| 60 | 8-733-856-71 | ITC 5 | 8 -59 | | | | |
| 61 | 8-453-005-11 | NECK ASSY (NA297-M) | | | | | |
| 62 | *A-1644-070-A | VM BOARD, COMPLETE | | | | | |
| 63 | 4-639-357-01 | SCREW(3x8), (+) BV TAPPING | | | | | |
| 0.5 | 4-033-337-01 | SCADA(SAO); (+) BY IMPLIES | | l | | | |

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked + are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque in sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

 $MMH: mH, \mu H: mH$



| | | | | | | | | 7 |
|--------------|------------------------------|---|----------------------|----------------------|--|---|----------------|-------------------|
| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
| | *A-1632-423-A | A BOARD, COMPLETE (KV-29 | C1A) | C120 | 1-163-117-00 | | 5% | 50V |
| | *A-1632-425-A | A BOARD, COMPLETE (KV-29 | C1B) | C121 C122 C123 | 1-163-113-00 1-163-137-00 1-163-113-00 | CERAMIC CHIP 680FF CERAMIC CHIP 680FF CERAMIC CHIP 68PF | 5% 5% 5% | 50V 50V 50V |
| | *A-1632-422-A | A BOARD, COMPLETE (KV-29 | C1D/29C1D 1) | C124 | | | | |
| | *A-1632-424-A | A BOARD, COMPLETE (KV-29 | C1E) | C201 | 1-137-399-11 1-163-139-00 | CERAMIC CHIP 820PF | 5% 5% | 50V 50V |
| | *A-1632-426-A | A BOARD, COMPLETE (KV-29 | C1K) | C202 C203 | 1-164-004-11 1-126-933-11 | | 10% 20% | 25V 16V |
| | *A-1632-427-A | A BOARD, COMPLETE (KV-29 | C1R) | C204 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| | | ***** | | C205 C206 | 1-126-965-11 1-163-141-00 | ELECT 22MF CERAMIC CHIP 0.001MF | 20% 5% | 50V 50V |
| | 1-750-797-11 | SOCKET, PLCC | | C207 C208 | 1-164-505-11 1-164-506-11 | CERAMIC CHIP 2.2MF CERAMIC CHIP 4.7MF | | 16V 16V |
| | < CAI | PACITOR > | | C209 | | CERAMIC CHIP 2.2MF | | 16V |
| C1 C2 | 1-163-038-00 1-126-965-11 | CERAMIC CHIP 0.1MF ELECT 22MF | 25V 20% 50V | C210 C211 | 1-216-295-00 | METAL GLAZE 0 5% | 1/10W | 1 (*** |
| C3 | 1-163-104-00 | CERAMIC CHIP 30PF | 5% 50V | C211 | 1-164-506-11 1-164-346-11 | CERAMIC CHIP 4.7MF CERAMIC CHIP 1MF | | 16V 16V |
| C4 C8 | 1-163-104-00 1-163-038-00 | CERAMIC CHIP 30PF CERAMIC CHIP 0.1MF | 5% 50V 25V | C213 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| ••• | | | | C214 | 1-164-346-11 | | | 16V |
| C10 C11 | 1-163-243-11 1-163-243-11 | CERAMIC CHIP 47PF CERAMIC CHIP 47PF | 5% 50V 5% 50V | C215 C216 | 1-163-133-00 1-126-967-11 | CERAMIC CHIP 470PF ELECT 47MF | 5% 20% | 50V 16V |
| C15 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V | C217 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C18 C19 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C218 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| | | CERAMIC CHIP 0.033MF | 10% 25V | C219 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C20 C21 | 1-164-232-11 1-164-232-11 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF | 10% 50V 10% 50V | C220 C221 | 1-164-506-11 1-164-505-11 | CERAMIC CHIP 4.7MF CERAMIC CHIP 2.2MF | | 16V 16V |
| C22 | 1-163-117-00 | | 5% 50V | C222 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C40 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% 25V | C223 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C41 | 1-163-989-11 | | 10% 25V | C224 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V |
| C42 C43 | 1-163-989-11 1-163-121-00 | CERAMIC CHIP 0.033MF CERAMIC CHIP 150PF | 10% 25V 5% 50V | C225 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C44 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% 25V | C226 | 1-126-967-11 1-164-232-11 | ELECT 47MF CERAMIC CHIP 0.01MF | 20% 10% | 16V 50V |
| C45 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C228 | 1-126-967-11 | ELECT 47MF | 20% | 16V |
| C80 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50 V | C229 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 5 0 V |
| C81 C82 | | CERAMIC CHIP 0.47MF CERAMIC CHIP 0.022MF | 25V 10% 50V | C230 C231 | 1-216-295-00 1-163-038-00 | | 1/10W | 2517 |
| C90 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C231 | 1-126-967-11 | CERAMIC CHIP 0.1MF ELECT 47MF | 20% | 25V 16V |
| C101 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C251 | 1-163-087-00 | CERAMIC CHIP 4PF | 0.25PI | 7 50V |
| C102 | 1-126-934-11 | ELECT 220MF | 20% 16V | C252 | 1-163-087-00 | CERAMIC CHIP 4PF | 0.25PE | 7 50V |
| C103 C104 | 1-126-965-11 | | 20% 50V | C253 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C104 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V (KV-29C1B) | C254 C255 | 1-163-109-00 1-163-117-00 | CERAMIC CHIP 47PF CERAMIC CHIP 100PF | 5% 5% | 50V 50V |
| C110 | 1-126-967-11 | | 20% 16V | C256 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V |
| C112 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V | C257 | 1-126-965-11 | ELECT 22MF | 20% | 5 0 V |
| C113 | 1-126-967-11 | ELECT 47MF | 20% 16V | C258 | 1-126-964-11 | ELECT 10MF | 20% | 50V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--------------------------------------|--|--|---|---|--|---|--|
| C259 C260 C261 C262 | 1-164-336-11 1-163-038-00 1-163-133-00 1-163-133-00 | CERAMIC CHIP 0.33MF CERAMIC CHIP 0.1MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF | 25V 25V 5% 50V 5% 50V | C340 C341 C342 C343 | 1-126-933-11 1-164-005-11 1-164-346-11 1-163-017-00 | | 20% 16V 25V 16V 10% 50V |
| C263 C264 C265 C266 C267 | 1-163-038-00 1-126-962-11 1-126-964-11 1-126-964-11 1-126-965-11 | ELECT 10MF ELECT 10MF | 25V 20% 50V 20% 50V 20% 50V 20% 50V | C344 C347 C348 C350 C351 | 1-163-117-00 1-164-005-11 1-163-038-00 1-126-964-11 1-164-505-11 | CERAMIC CHIP 100PF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 2.2MF | 5% 50V 25V 25V 20% 50V 16V |
| C268 C269 C270 C271 C272 | 1-163-038-00 1-163-131-00 1-163-131-00 1-163-141-00 1-163-141-00 | | 25V 5% 50V 5% 50V 5% 50V 5% 50V | C352 C353 C354 C355 C356 | 1-164-005-11 1-164-505-11 1-164-005-11 1-126-965-11 1-164-232-11 | CERAMIC CHIP 0.47MF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.47MF ELECT 22MF CERAMIC CHIP 0.01MF | 25V 16V 25V 20% 50V 10% 50V |
| C273 C274 C275 C276 C277 | 1-163-141-00 | CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF | 5% 50V 5% 50V 16V 16V 16V | C357 C358 C359 C360 | 1-163-133-00 1-164-005-11 1-163-231-11 1-163-231-11 | CERAMIC CHIP 15PF CERAMIC CHIP 15PF | 5% 50V 25V 5% 50V 5% 50V |
| C278 C279 | 1-164-346-11 1-126-965-11 | CERAMIC CHIP 1MF ELECT 22MF | 16V 20% 50V | C370 | 1-164-505-11 | CERAMIC CHIP 2.2MF (KV-29C1B/29C1D/29C1D 29C1R) CERAMIC CHIP 0.001MF | 16V 1/29C1E/29C1K/ 5% 50V |
| C280 C281 C282 | 1-163-038-00 1-126-965-11 1-163-038-00 | CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF | 25V 20% 50V 25V | C372 | 1-164-004-11 | CERAMIC CHIP 0.1MF (KV-29C1B/29C1D/29C1D | 10% 25V |
| C301 C302 C303 C304 C305 | 1-163-038-00 1-163-141-00 1-163-141-00 1-163-038-00 1-163-038-00 | CERANIC CHIP 0.1MF CERANIC CHIP 0.001MF CERANIC CHIP 0.001MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF | 25V 5% 50V 5% 50V 25V 25V | C373 | 1-164-489-11 | 29C1R) CERAMIC CHIP 0.22MF (KV-29C1B/29C1D/29C1D 29C1R) | 10% 16V 1/29C1E/29C1K/ |
| C306 C307 C308 C309 C310 | 1-164-232-11 1-164-232-11 1-164-232-11 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 1MF | 10% 50V 10% 50V 10% 50V 16V 16V | C1001 C1002 C1010 C1014 C1020 | 1-163-235-11 1-163-235-11 1-163-038-00 1-163-038-00 1-163-101-00 | CERAMIC CHIP 22PF | 5% 50V 5% 50V 25V 25V 5% 50V |
| | | | | | < FII | LTER > | |
| C311 C312 C313 | | CERAMIC CHIP 1MF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.001MF | 16V 16V 5% 50V | CF120 | 1-409-327-00 | TRAP, CERAMIC (6.5MHz) (| KV-29C1B) |
| C315 C317 | 1-216-295-00 1-163-038-00 | | 1/10W 25V | | < COI | NECTOR > | |
| C319 C320 C321 C322 C323 | 1-163-989-11 1-126-965-11 1-164-232-11 1-164-004-11 | CERAMIC CHIP 0.033MF | 10% 25V 20% 50V 10% 50V 10% 25V 10% 25V | CN1 CN2 CN201 CN301 | *1-568-880-51 1-766-296-11 *1-568-882-51 | CONNECTOR, BOARD TO BOAR PLUG, CONNECTOR 5P CONNECTOR, DUAL SCART PIN, CONNECTOR 7P DDE > | D 50P |
| | | | | 702 | | DIODE 1SS355 | |
| C324 C325 C326 C327 C328 | 1-164-346-11 | | 10% 25V 16V 5% 50V 5% 50V 20% 50V | D2 D10 D11 D12 D101 | 8-719-158-15 8-719-158-15 8-719-158-15 | DIODE RD5.6S-B DIODE RD5.6S-B DIODE RD5.6S-B DIODE DTZ33B | |
| C329 C330 C331 C332 C333 | 1-164-232-11 1-130-777-00 1-137-581-11 1-164-232-11 1-126-933-11 | FILM 0.1MF CERAMIC CHIP 0.01MF | 10% 50V 5% 63V 5% 100V 10% 50V 20% 16V | D201 D202 D203 D204 D205 | 8-719-977-22 8-719-977-22 8-719-977-22 8-719-977-22 8-719-977-22 | DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 | |
| C334 C335 C336 C337 C338 | 1-164-004-11 1-163-017-00 1-164-232-11 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.01MF CERAMIC CHIP 1MF | 10% 50V 10% 25V 10% 50V 10% 50V 16V | D206 D207 D208 D209 D210 | 8-719-977-22 8-719-977-22 8-719-977-22 | DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 | |
| C339 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50 V | D211 | 8-719-977-22 | DIODE DTZ9.1 | |

| Α |
|---|
|---|

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | l | REMARK |
|--------------|--------------|--|---------------------|--------------|------------------------------|----------------------------------|--------------------|----------------|
| D212 D213 | 8-719-977-22 | DIODE DTZ9.1 DIODE DTZ9.1 | | Q18 | 8-729-901-01 | TRANSISTOR DTO | 2144EK | |
| D214 D215 | | DIODE DTZ9.1 DIODE DTZ9.1 | | Q80 Q81 | | TRANSISTOR 2SO TRANSISTOR 2SA | | |
| | | | | Q110 | | TRANSISTOR 2SC | | |
| D216 | | DIODE RD5.6S-B | | Q111 | | TRANSISTOR 2SA | | |
| D217 D218 | | DIODE RD5.6S-B DIODE RD5.6S-B | | Q112 | 8-729-920-74 | TRANSISTOR 2SC | .2412K-QR | |
| D210 | | DIODE 1SS355 | | Q113 | 8-729-216-22 | TRANSISTOR 2SA | 1162-G | |
| D221 | | DIODE 1SS355 | | Q114 | | TRANSISTOR 2SA | | |
| | | | | Q120 | | TRANSISTOR 2SC | | |
| D222 D223 | | DIODE DTZ9.1 DIODE DTZ9.1 | | Q121 Q122 | | TRANSISTOR 2SC TRANSISTOR 2SC | | (KV-29C1B) |
| D223 | | DIODE DIZ9.1 DIODE DTZ9.1 | | Q122 | 0-129-920-14 | TRANSISTOR 250 | YATEV-AV | |
| D225 | | DIODE DTZ9.1 | | Q124 | 8-729-920-74 | TRANSISTOR 2SC | 2412K-QR | (KV-29C1B) |
| D226 | 8-719-977-22 | DIODE DTZ9.1 | | Q130 | | TRANSISTOR 2SA | | W-29C1B) |
| D227 | 0 710 077 13 | DIODE DECK OG | | Q201 Q202 | | TRANSISTOR 2SC TRANSISTOR 2SC | | |
| D227 D251 | 8-719-9/7-15 | DIODE DTZ6.8C DIODE BAS216 | | Q202 Q203 | | TRANSISTOR 2SC | | |
| D320 | 8-719-977-22 | DIODE DTZ9.1 | | 2.00 | 0 /25 520 /1 | 1101/5151011 150 | , 21. | |
| D370 | | DIODE BAS216 | | Q204 | | TRANSISTOR 2SC | | |
| | | (KV-29C1B/29C1D/29C1 | D 1/29C1E/29C1K/ | Q205 | | TRANSISTOR DTC | | |
| | | 29C1R) | | Q206 Q207 | | TRANSISTOR 2SA TRANSISTOR 2SA | | |
| | < LIN | WE FILTER > | | Q304 | | TRANSISTOR 250 | | |
| FL101 | 1-236-071-11 | ENCAPSULATED COMPONENT | | 0305 | 8-729-920-74 | TRANSISTOR 2SC | 2412K-OR | |
| FL201 | 1-236-071-11 | ENCAPSULATED COMPONENT | | Q306 | 8-729-920-74 | TRANSISTOR 2SC | 2412K-QR | |
| FL202 | | ENCAPSULATED COMPONENT | | Q330 | | TRANSISTOR 2SA | | |
| FL203 | | ENCAPSULATED COMPONENT | | Q331 Q332 | | TRANSISTOR 2SC TRANSISTOR 2SC | | |
| | < IC | IC SDA5250M-GEG IC ST24E32MGTR IC TMS27PC010A-15FML IC PST593C-MMP-4P IC CXA2040Q-T4 IC MSP3410-15 (KV-29C1) | | Q1002 | | TRANSISTOR 2SA | - | |
| IC1 | 8-759-376-75 | IC SDA5250M-GEG | | | . 050 | TOMOR . | | |
| IC2 IC3 | 8-759-334-20 | IC ST24E32MOTK IC TMS27DC010A-15FMT. | | | < KES | ISTOR > | | |
| IC4 | 8-759-394-57 | IC PST593C-MMP-4P | | JR101 | 1-216-295-00 | METAL GLAZE | 0 5% | 1/10W |
| IC201 | 8-752-076-06 | IC CXA2040Q-T4 | | JR201 | 1-216-295-00 | METAL GLAZE | 0 5% | 1/10W |
| IC202 | 0 133 310 00 | TO 1101 0 110 10 (10 10 10 10 10 10 10 10 10 10 10 10 10 1 | B/29C1E) | | 1-216-295-00 | | 0 5% | 1/10W |
| | 8-759-376-56 | IC MSP3400C-PS (KV-29C1A/29C1D/29C | ות 1/20/21 אור מו | R2 R3 | 1-216-025-00 1-216-025-00 | | 100 5% 100 5% | 1/10W 1/10W |
| IC203 | 8-759-385-76 | IC MC14052 BDR2 | ID 1/29CIR/29CIR/ | R4 | 1-216-013-00 | | 33 5% | 1/10W |
| IC301 | | IC CXA2000Q-TL | | R5 | 1-216-065-00 | | 4.7K 5% | 1/10W |
| IC302 | | IC TDA4665T-T | | R7 | 1-216-041-00 | | 470 5% | 1/10W |
| IC303 | 8-759-251-56 | IC TDA8395T | - 4 /00545 /00545 / | R8 | 1-216-065-00 | | 4.7K 5% | 1/10W |
| | | (KV-29C1B/29C1D/29C1 29C1R) | D 1/29C1E/29C1K/ | R9 R10 | 1-216-041-00 1-216-041-00 | | 470 5% 470 5% | 1/10W 1/10W |
| | | 29CIR/ | | R11 | 1-216-041-00 | | 470 5% | 1/10W |
| | < COI | IL > | | | | | | |
| T10 | 1 410 270 21 | INDUCTOR CHIP 6.8UH | | R12 R13 | 1-216-041-00 1-216-029-00 | | 470 5% 150 5% | 1/10W 1/10W |
| L10 L102 | 1-410-3/9-31 | | KV-29C1B) | R14 | 1-216-029-00 | | 150 5% 150 5% | 1/10W 1/10W |
| L111 | | INDUCTOR CHIP 1UH | | R15 | 1-216-029-00 | | 150 5% | 1/10W |
| L120 | 1-408-408-00 | | | R16 | 1-216-025-00 | METAL GLAZE | 100 5% | 1/10W |
| L121 | 1-408-397-00 | INDUCTOR 1UH | | R17 | 1-216-025-00 | שוים מפאו | 100 5% | 1/10W |
| L122 | 1-408-408-00 | INDUCTOR 8.2UH | | R18 | 1-216-025-00 | | 100 5% | 1/10W |
| | • | | | R19 | 1-216-025-00 | METAL GLAZE | 100 5% | 1/10W |
| | < TRA | ANSISTOR > | | R20 | 1-216-025-00 | | 100 5% | 1/10W |
| Q1 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | R21 | 1-216-025-00 | METAL GLAZE | 100 5% | 1/10W |
| Q4 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | R24 | 1-216-065-00 | | 4.7K 5% | 1/10W |
| Q5 | | TRANSISTOR 2SC2412K-QR | | R25 | 1-216-065-00 | METAL GLAZE | 4.7K 5% | 1/10W |
| Q10 Q11 | | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G | | R28 R29 | 1-216-065-00 1-216-065-00 | | 4.7K 5% 4.7K 5% | 1/10W 1/10W |
| - | | | | R30 | 1-216-065-00 | | 4.7K 5% | 1/10W |
| Q12 | | TRANSISTOR 2SA1162-G | | D21 | 1 216 265 22 | 100m3 r 07 | 4 7 m = 50 | 1 /1017 |
| Q15 Q16 | | TRANSISTOR DTC144EK TRANSISTOR DTC144EK | | R31 R32 | 1-216-065-00 1-216-025-00 | | 4.7K 5% 100 5% | 1/10W 1/10W |
| Q17 | | TRANSISTOR DTC144EK | | R33 | 1-216-025-00 | | 100 5% | 1/10W |
| | | | | | | | | |



| R34 1-216-025-00 METAL GLAZE 100 5% 1/10W R35 1-216-025-00 METAL GLAZE 100 5% 1/10W | R106 1-216-073 | | F0. 4 /4 Avr |
|---|--|--|--|
| | | 3-00 METAL GLAZE 10K | 5% 1/10W 5% 1/10W |
| R36 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R37 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R38 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R39 1-216-073-00 METAL GLAZE 10K 5% 1/10W R40 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W | | 9-00 METAL GLAZE 150 1-00 METAL GLAZE 10 9-00 METAL GLAZE 150 | 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W |
| R42 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R44 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R46 1-216-095-00 METAL GLAZE 82K 5% 1/10W R47 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R48 1-216-121-91 METAL GLAZE 1M 5% 1/10W | R118 1-216-07 R119 1-216-03 | 5-00 METAL GLAZE 1.8K 1-00 METAL GLAZE 8.2K 3-00 METAL GLAZE 220 | 5% 1/10W |
| R49 1-216-025-00 METAL GLAZE 100 5% 1/10W R50 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R51 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R52 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R53 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W | R121 1-216-077 R122 1-216-047 R123 1-216-037 R124 1-216-049 R125 1-216-088 | 1-00 METAL GLAZE 470 1-00 METAL GLAZE 180 9-00 METAL GLAZE 1K | 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W |
| R54 1-216-025-00 METAL GLAZE 100 5% 1/10W R58 1-216-063-91 METAL GLAZE 3.9K 5% 1/10W R59 1-216-025-00 METAL GLAZE 100 5% 1/10W R60 1-216-025-00 METAL GLAZE 100 5% 1/10W R61 1-216-025-00 METAL GLAZE 100 5% 1/10W | R126 1-216-02! R127 1-216-08: R128 1-216-03! R129 1-216-03' | 1-00 METAL GLAZE 22K 5-00 METAL GLAZE 270 | 5% 1/10W (KV-29C1B) 5% 1/10W 5% 1/10W 5% 1/10W |
| R62 1-216-025-00 METAL GLAZE 100 5% 1/10W R63 1-216-025-00 METAL GLAZE 100 5% 1/10W R64 1-216-025-00 METAL GLAZE 100 5% 1/10W R65 1-216-025-00 METAL GLAZE 100 5% 1/10W | R130 1-216-073 | | 5% 1/10W (KV-29C1B) 5% 1/10W (KV-29C1B) |
| R66 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R67 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W | R132 1-216-02 | 5-00 METAL GLAZE 100 | 5% 1/10W (KV-29C1B) |
| R69 1-216-025-00 METAL GLAZE 100 5% 1/10W R70 1-216-025-00 METAL GLAZE 100 5% 1/10W R71 1-216-025-00 METAL GLAZE 100 5% 1/10W | R133 1-216-04: | | 5% 1/10W (KV-29C1B) 5% 1/10W |
| R72 1-216-025-00 METAL GLAZE 100 5% 1/10W R73 1-216-025-00 METAL GLAZE 100 5% 1/10W | R135 1-216-04 | 5-00 METAL GLAZE 680 | (KV-29C1B) 5% 1/10W (KV-29C1B) |
| R74 1-216-025-00 METAL GLAZE 100 5% 1/10W R75 1-216-025-00 METAL GLAZE 100 5% 1/10W R76 1-216-025-00 METAL GLAZE 100 5% 1/10W | R136 1-216-03 | 3-00 METAL GLAZE 220 | 5% 1/10W (KV-29C1B) |
| R77 1-216-025-00 METAL GLAZE 100 5% 1/10W R78 1-216-025-00 METAL GLAZE 100 5% 1/10W | | | 5% 1/10W (KV-29C1B) 5% 1/10W |
| R79 1-216-033-00 METAL GLAZE 220 5% 1/10W R80 1-216-049-00 METAL GLAZE 1K 5% 1/10W R81 1-216-081-00 METAL GLAZE 22K 5% 1/10W R82 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W | R200 1-216-049 R201 1-216-03 | 9-00 METAL GLAZE 1K 3-00 METAL GLAZE 220 | (KV-29C1B) 5% 1/10W 5% 1/10W 5% 1/10W |
| R83 1-216-073-00 METAL GLAZE 10K 5% 1/10W R84 1-216-081-00 METAL GLAZE 22K 5% 1/10W R85 1-216-073-00 METAL GLAZE 10K 5% 1/10W | R203 1-216-02 | 5-00 METAL GLAZE 100 . | 5% 1/10W 5% 1/10W |
| R86 1-216-077-00 METAL GLAZE 15K 5% 1/10W R87 1-216-081-00 METAL GLAZE 22K 5% 1/10W | R206 1-216-033 | 3-00 METAL GLAZE 220 . | 5% 1/10W 5% 1/10W 5% 1/10W |
| R88 1-216-296-00 METAL GLAZE 0 5% 1/8W R91 1-216-025-00 METAL GLAZE 100 5% 1/10W R92 1-216-025-00 METAL GLAZE 100 5% 1/10W | R210 1-216-01 | | 5% 1/10W 5% 1/10W |
| R93 1-216-029-00 METAL GLAZE 150 5% 1/10W R94 1-216-001-00 METAL GLAZE 10 5% 1/10W | R212 1-216-027 R213 1-216-027 | 2-00 METAL GLAZE 75 2-00 METAL GLAZE 75 | 5% 1/10W 5% 1/10W 5% 1/10W |
| R95 1-216-033-00 METAL GLAZE 220 5% 1/10W R97 1-216-295-00 METAL GLAZE 0 5% 1/10W R98 1-216-295-00 METAL GLAZE 0 5% 1/10W | R216 1-216-02 | 5-00 METAL GLAZE 100 | 5% 1/10W 5% 1/10W |
| R101 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W R102 1-216-025-00 METAL GLAZE 100 5% 1/10W | R218 1-216-029 R219 1-216-11 | 3-00 METAL GLAZE 470K | 5% 1/10W 5% 1/10W |
| R103 1-216-025-00 METAL GLAZE 100 5% 1/10W R104 1-216-073-00 METAL GLAZE 10K 5% 1/10W R105 1-216-113-00 METAL GLAZE 470K 5% 1/10W | | | 5% 1/10W 5% 1/10W |

| A |
|---|
|---|

| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTIO | N. | | REMARK |
|--------------------------------------|--|--|---|---|---|--|---|-----------------------------------|----------------------------|---|
| R222 R223 R224 R225 R226 | 1-216-089-00 1-216-295-00 1-216-039-00 1-216-089-00 1-216-033-00 | METAL GLAZE 0 METAL GLAZE 3 METAL GLAZE 4 | 7K 5% 5% 90 5% 7K 5% 20 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R327 R328 R329 R330 R331 | 1-216-025-00 1-216-129-00 1-216-089-00 1-216-025-00 1-216-059-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 2.2M 47K 100 2.7K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R227 R228 R229 R230 R232 | 1-216-022-00 1-216-022-00 1-216-033-00 1-216-022-00 1-216-025-00 | METAL GLAZE 7 | 5 5% 20 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R312 R313 R314 R332 R333 | 1-216-295-00 1-216-295-00 1-216-295-00 1-216-025-00 1-216-075-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 0 0 0 100 12K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R233 R234 R235 R236 R237 | 1-216-025-00 1-216-113-00 1-216-025-00 1-216-113-00 1-216-295-00 | METAL GLAZE 4 METAL GLAZE 1 | 00 5% 70K 5% 00 5% 70K 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R334 R335 R336 R337 R338 | 1-216-041-00 1-208-806-11 1-216-109-00 1-216-025-00 1-216-051-00 | METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE | 470 10K 330K 100 1.2K | 5% 0.50% 5% 5% | 1/10W 5 1/10W 1/10W 1/10W 1/10W |
| R238 R239 R240 R241 R242 | 1-216-089-00 1-216-039-00 1-216-295-00 1-216-089-00 1-216-039-00 | METAL GLAZE 3 METAL GLAZE 0 METAL GLAZE 4 | 7K 5% 90 5% 5% 7K 5% 90 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R339 R340 R341 R342 R343 | 1-216-049-00 1-216-025-00 1-216-025-00 1-216-049-00 1-216-061-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 100 100 1K 3.3K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R243 R244 R245 R246 R247 | 1-216-033-00 1-216-033-00 1-216-073-00 1-216-053-00 1-216-053-00 | METAL GLAZE 2: METAL GLAZE 1: METAL GLAZE 1 | 20 5% 20 5% DK 5% .5K 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R344 R345 R346 R347 R348 | 1-216-067-00 1-216-025-00 1-216-063-91 1-216-025-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 5.6K 100 3.9K 100 100 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R249 R255 R256 R270 R271 | 1-216-001-00 1-216-025-00 1-216-025-00 1-216-022-00 1-216-022-00 | | 00 5% 00 5% 5 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R349 R350 R351 R352 R353 | 1-216-025-00 1-216-042-00 1-216-053-00 1-216-077-00 1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 510 1.5K 15K 220 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R272 R273 R280 R281 R282 | 1-216-022-00 1-216-022-00 1-216-049-00 1-216-089-00 1-216-093-00 | | 5 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R354 R357 R370 R1001 R1002 | 1-216-033-00 1-216-049-00 1-216-295-00 1-216-025-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 220 1K 0 100 100 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R283 R284 R285 R286 R300 | 1-216-049-00 1-216-089-00 1-216-093-00 1-216-049-00 1-216-025-00 | METAL GLAZE 60 METAL GLAZE 11 | 7K 5% BK 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R1010 R1012 R1014 R1020 R1021 | 1-216-295-00 1-216-041-00 1-216-065-00 1-216-097-00 1-216-029-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 0 470 4.7K 100K 150 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R301 R302 R303 R308 R309 | 1-216-033-00 1-216-295-00 1-216-295-00 1-216-025-00 1-216-033-00 | METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 10 | 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R1022 R1023 R1024 R1026 R1027 | 1-216-029-00 1-216-029-00 1-216-025-00 1-216-025-00 1-216-025-00 | | 150 150 100 100 100 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R310 R311 R312 R313 R314 | 1-216-033-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 | METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0 | 20 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R1028 | 1-216-025-00 < TUN 1-693-338-11 | ER > | 100 P) | 5% | 1/10W |
| R315 R316 R318 R319 R320 | 1-216-295-00 1-216-033-00 1-216-689-11 1-216-081-00 1-216-025-00 | METAL GLAZE 23 METAL GLAZE 23 METAL GLAZE 23 |)K 5% 2K 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | < CRY | 29C1R) TUNER/VIF (FR STAL > |) (KV- | | 1/29C1E/29C1R/ |
| R321 R322 R323 R324 R326 | 1-216-025-00 1-216-025-00 1-216-033-00 1-216-063-91 1-216-025-00 | METAL GLAZE 10 METAL GLAZE 22 METAL GLAZE 3. | 00 5% 00 5% 00 5% 9K 5% 00 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | X1 X201 X301 X302 X303 | 1-760-628-11 1-567-504-11 1-567-505-11 | | STAL 1 RYSTAL RYSTAL | | Hz |

| KV-29C1A/29C1D/29C1D 1/ 29C1E/ 29C1K/29C1R |) |
|---|---|
|---|---|

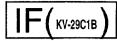
| F(KV-29C1B) | IF | KV-29C1B |) |
|-------------|----|----------|---|
|-------------|----|----------|---|

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|--------------|------------------------------|--|--|----------------|------------------------------|---|--------------------|--|--|
| | A-1652-037-A | IF BOARD, COMPLETE | (KV-29C1A/29C1D/ 29CID 1/29C1E/ 29C1K/29C1R) | R25 R021 | | METAL GLAZE 2.2K 5% METAL GLAZE 100 5% | 1/10W 1/8W | | |
| | | | ZJCIR, ZJCIR, | | < VAI | RIABLE RESISTOR > | | | |
| | | PACITOR > | | RV01 | 1-226-703-11 | RES, ADJ, METAL GLAZE | 10K | | |
| C01 | 1-164-337-11 | CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF | 16V 16V | ****** | ******* | ********** | ***** | | |
| C02 C03 | 1-104-957-11 | ELECT 47MF | 20% 16V | | | | | | |
| C04 C05 | | TANTAL. CHIP 10MF CERAMIC CHIP 0.1MF | 20% 6.3V 10% 25V | | A-1652-036-A | IF BOARD, COMPLETE (KV- | -29C1B) | | |
| | | | | | - CA1 | PACITOR > | | | |
| C06 C08 | 1-164-005-11 | CERAMIC CHIP 0.47MF CERAMIC CHIP 0.01MF | 16V 10% 50V | 1 | < CAI | PACITOR > | | | |
| C09 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C01 | | CERAMIC CHIP 1MF | 16V | | |
| C10 | | CERAMIC CHIP 0.1MF | 10% 25V 10% 25V | C02 C03 | 1-164-337-11 1-104-957-11 | CERAMIC CHIP 2.2MF ELECT 47MF | 16V 20% 16V | | |
| C11 | 1-104-004-11 | CERAMIC CHIP U.IMF | 10% 2J¥ | C04 | | TANTAL. CHIP 10MF | 20% 6.3V | | |
| C15 | 1-124-282-00 | | 20% 25V | C05 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | | |
| C16 | | CERAMIC CHIP 1MF CERAMIC CHIP 2.2MF | 16V 16V | C06 | 1_164_005_11 | CERAMIC CHIP 0.47MF | 16V | | |
| C18 C19 | 1-104-337-11 | | 20% 16V | C08 | | CERAMIC CHIP 0.01MF | 10% 5 0 V | | |
| 423 | | | | C09 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | | |
| | < FII | LTER > | | C10 C11 | | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | 10% 25V 10% 25V | | |
| CF01 | 1-404-134-00 | TRAP, CERAMIC (5.5M | łZ) | CII | 1-104-004-11 | CBAMIC CHIF V.IM | 10.0 251 | | |
| | | , | • | C12 | | CERAMIC CHIP 0.01MF | 10% 50V | | |
| SWF04 | 1-767-084-11 | FILTER, SURFACE WAVE | 3 | C13 C14 | | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF | 10% 50V 10% 50V | | |
| | < IC | > | | C15 | 1-104-252-11 | | 20% 16V | | |
| | | | | C16 | 1-162-638-11 | CERAMIC CHIP 1MF | 16V | | |
| IC01 | 8-759-385-26 | IC TDA4472-CFLG3 | | C17 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | | |
| | < CO | IL > | | C18 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V | | |
| T 0.0 | 1 400 400 00 | INDUCTOR 8.2UI | 1 | C20 C21 | 1-124-937-11 | ELECT 10MF CERAMIC CHIP 4.7MF | 20% 16V 16V | | |
| L02 L04 | 1-408-408-00 1-408-419-00 | | | C21 | 1-104-300-11 | CHAMIC CHIP 4.7MF | 201 | | |
| T08 | | INDUCTOR CHIP 0.820 | JH | | < FI | LTER > | | | |
| | < VAI | RIABLE COIL > | | CF01 | 1-409-430-11 | TRAP, CERAMIC | | | |
| LV01 | 1-411-874-11 | COIL | | SWF01 | 1-579-273-11 | FILTER, SURFACE WAVE | | | |
| | | | | SWF02 SWF03 | | FILTER, SURFACE WAVE | | | |
| | | ANSISTOR > | _ | | | | | | |
| Q01 | 8-729-216-22 | TRANSISTOR 2SA1162-0 | 3 | | | IMMER > | | | |
| | < RES | SISTOR > | | CT01 | 1-760-662-11 | TRAP, CERAMIC | | | |
| JR01 | | METAL GLAZE 0 | 5% 1/8W | TO BEAUTY | < IC | > | | | |
| JR02 JR03 | | METAL GLAZE 0 METAL GLAZE 0 | 5% 1/8W 5% 1/10W | IC01 | 8-759-069-36 | IC MC74HC4046AF | | | |
| JR04 | 1-216-296-91 | METAL GLAZE 0 | 5% 1/8W | | | | | | |
| JR05 | 1-216-295-00 | METAL GLAZE 0 | 5% 1/10W | | < CO: | IL > | | | |
| JR07 | 1-216-295-00 | METAL GLAZE 0 | 5% 1/10W | L02 | 1-408-406-00 | | | | |
| DA1 | 1 216 820 00 | אים מפאד מינים אים | 5% 1/10W | L04 L05 | 1-408-419-00 | INDUCTOR CHIP 0.33UH | | | |
| R01 R02 | 1-216-029-00 1-216-089-91 | | 5% 1/10W 5% 1/10W | T02 | 1-410-987-11 | | | | |
| R03 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W | | | | | | |
| R04 R05 | 1-216-057-00 | | 5% 1/10W 5% 1/10W | | < VA | RIABLE COIL > | | | |
| CUA | 1-216-081-00 | петан спась 22% | J-0 1/10W | LV01 | 1-411-874-11 | COIL | | | |
| R06 | 1-216-057-00 | | 5% 1/10W | ! | | ANGT GMOD : | | | |
| R07 R08 | 1-216-025-91 | METAL GLAZE 100 METAL GLAZE 100 | 5% 1/10W 5% 1/8W | | < TR | ANSISTOR > | | | |
| R09 | 1-216-045-00 | METAL GLAZE 680 | 5% 1/10W | Q01 | | TRANSISTOR 2SA1162-G | | | |
| R10 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W | Q02 | | TRANSISTOR BF799-GEG | | | |
| R11 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W | Q03 004 | | TRANSISTOR BF799-GEG TRANSISTOR DTC144EK | | | |
| R23 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | 2 | J . 12 201 41 | | | | |
| R24 | 1-216-295-91 | METAL GLAZE 0 | 5% 1/10W | | | | | | |

Les composants identifies par une trame et une marque : sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked $\cdot \cdot$ are critical for safety.

Replace only with the part number specified.





| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTIO | ON . | | REMARK |
|--------------------------------------|--|--|---|--|--|--|---|--------------------------------------|-------------|
| | < RE | SISTOR > | | < DIODE > | | | | | |
| JR01 JR02 JR03 JR04 JR05 | 1-216-296-91 1-216-296-91 | METAL GLAZE 0 5 METAL GLAZE 0 5 METAL GLAZE 0 5 METAL GLAZE 0 5 | 5% 1/8W 5% 1/8W 5% 1/10W 5% 1/8W 5% 1/10W | D701 D702 D706 D707 D708 | | DIODE RD3.9ES DIODE 1SS1331 DIODE 1SS1331 DIODE 1SS1331 | r-77 r-77 r-77 | | |
| JR07 R01 R02 R03 R04 R05 R06 R07 R08 | 1-216-295-00 1-216-029-00 1-216-089-91 1-216-087-00 1-216-081-00 1-216-025-91 1-216-174-00 | METAL GLAZE 150 S METAL GLAZE 47K S METAL GLAZE 47K S METAL GLAZE 2.2K S METAL GLAZE 22K S METAL GLAZE 100 S | 1/10W | D709 D710 D711 D714 D715 D716 D717 D718 D719 D720 | 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 | DIODE 1SS1331 DIODE EL1Z DIODE 1SS1331 DIODE 1SS1331 | r-77 r-77 r-77 r-77 r-77 r-77 | | |
| R09 R10 | 1-216-045-00 1-216-041-00 | METAL GLAZE 680 | % 1/10W % 1/10W | 5720 | | SOCKET > | . ,, | | |
| R11 R12 R13 R14 | 1-216-051-00 1-216-063-91 1-216-061-00 1-216-023-00 | METAL GLAZE 3.9K 5 | % 1/10W % 1/10W % 1/10W % 1/10W | J701 🛦 | 1-526-990-22 < CO | - | | | |
| R15 | 1-216-017-91 | | % 1/10W | L704 | 1-408-609-41 | INDUCTOR | 33UH | | |
| R16 R17 R18 R20 R23 | | METAL GLAZE 47 5 METAL GLAZE 33 5 METAL GLAZE 10K 5 METAL GLAZE 1K 5 METAL GLAZE 2.2K 5 | % 1/10W 1/10W % 1/10W % 1/10W % 1/10W | Q702 Q703 Q704 Q705 Q706 | | TRANSISTOR 2S | 7871-127 SA1091-0 SC2785-HFE | | |
| R21 | R21 1-216-174-00 METAL GLAZE 100 5% 1/8W < VARIABLE RESISTOR > RV01 1-226-703-11 RES, ADJ, METAL GLAZE 10K RV02 1-226-703-11 RES, ADJ, METAL GLAZE 10K | | | | 8-729-200-17 8-729-119-78 | | | | |
| | | | | | 8-729-906-70 TRANSISTOR BF871-127 8-729-200-17 TRANSISTOR 2SA1091-0 8-729-173-38 TRANSISTOR 2SA733-K | | | | |
| ***** | ******* | ****** | ****** | < RESISTOR > | | | | | |
| | | C BOARD, COMPLETE *********************************** | | R704 R705 R706 R707 R709 | 1-216-486-00 1-202-822-00 1-247-815-91 1-249-407-11 1-202-844-00 | SOLID CARBON CARBON | 8.2K 5% 2.2K 10% 220 5% 150 5% 330K 10% | 3W 1/2W 1/4W 1/4W 1/2W | i I |
| C702 C703 C708 C710 C712 | 1-102-115-00 1-102-116-00 1-162-114-00 1-107-652-11 1-102-116-00 | CERAMIC 680PF CERAMIC 0.0047MF ELECT 10MF | 10% 50V 10% 50V 2KV 20% 250V 10% 50V | R711 R712 R714 R715 R716 | 1-249-420-11 1-202-822-00 1-216-486-00 1-249-417-11 1-247-815-91 | CARBON SOLID METAL OXIDE CARBON | 1.8K 5% 2.2K 10% 8.2K 5% 1K 5% 220 5% | 1/4W 1/2W 3W 1/4W | I I F |
| C714 C717 C718 C719 C722 | 1-126-967-11 1-102-114-00 1-102-114-00 1-102-114-00 1-101-880-00 | CERAMIC 470PF CERAMIC 470PF CERAMIC 470PF CERAMIC 47PF | 20% 16V 10% 50V 10% 50V 10% 50V 5% 50V | R717 R718 R720 R722 R723 | 1-249-407-11 1-202-814-11 1-249-420-11 1-202-848-00 1-249-417-11 | SOLID CARBON SOLID | 150 5% 33K 10% 1.8K 5% 680K 10% 1K 5% | 1/4W 1/2W 1/4W 1/2W 1/4W | ī I |
| C723 C724 | 1-101-880-00 1-101-880-00 | | 5% 50 V 5% 50 V | R724 | 1-202-846-00 | | 470K 10% | 1/2W | |
| CN701 CN702 | 1-778-037-11 | NNECTOR > PIN, CONNECTOR 6P TAB (CONTACT) | | R726 R727 R728 R729 | 1-202-822-00 1-247-815-91 1-216-350-11 1-249-407-11 | CARBON METAL OXIDE CARBON | 2.2K 10% 220 5% 1.2 5% 150 5% | 1/2W 1/4W 1W 1/4W | I F |
| CN703 | *1-568-882-51 | PIN, CONNECTOR 7P | | R731 R733 R734 R735 | 1-249-420-11 1-249-417-11 1-247-807-31 1-249-417-11 | CARBON CARBON | 1.8K 5% 1K 5% 100 5% 1K 5% | 1/4W 1/4W 1/4W 1/4W | l I |



Les composants identifies par une trame et une marque in sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie. The components identified by shading and marked is are critical for safety.

Replace only with the part number specified.

| | | | | | | | | | · | | |
|-------------------------|--|------------------|---------------------------|-----------------------|--------------|--------------------------------|--|----------------------|---|--------------------------|-----------------------------|
| REF.NO. | PART NO. | DESCRIPTION | <u>l</u> | | REMARK | REF.NO. | PART NO. | DESCRIPTION | ON | | REMARK |
| R736 R739 R740 | 1-216-486-00 1-249-417-11 1-249-417-11 | CARBON | 1K 5 | % 1/4W % 1/4W | • | C503 C504 C506 C507 | 1-136-165-00 1-102-824-00 1-126-941-11 1-109-953-11 | CERAMIC ELECT | 0.1MF 470PF 470MF 2.2MF | 5% 5% 20% 20% | 50V 50V 25V 50V |
| R741 R744 R745 | 1-202-549-00 1-249-421-11 1-249-421-11 1-249-421-11 | CARBON CARBON | 100 2 2.2K 5 2.2K 5 | % 1/4W | | C509 C510 C511 C513 | 1-136-165-00 1-126-969-11 1-136-202-11 1-106-220-00 | ELECT FILM | 0.1MF 220MF 0.33MF 0.1MF | 5% 20% 5% 10% | 50V 50V 63V 100V |
| R747 R748 R749 | 1-249-437-11 1-249-417-11 1-249-435-11 | CARBON CARBON | 47K 5 | % 1/4W % 1/4W | | C514 C515 | 1-136-165-00 1-126-941-11 | FILM | 0.1MF 470MF | 5% 20% | 50V 25V |
| KIES | | RIABLE RESISTOR | | 70 I/IN | | C517 C518 | 1-126-941-11 1-102-228-00 | ELECT CERAMIC | 470MF 470PF | 20% 10% | 25V 500V |
| RV701 RV702 | | RES, ADJ, MET | | | | C519 C520 | 1-102-228-00 1-126-941-11 | | 470PF 470MF | 10% 20% | 500V 25V |
| ***** | | ******* | | | ***** | C521 C522 C523 | 1-124-006-11 1-126-964-11 1-136-165-00 | ELECT | 10MF 10MF 0.1MF | 20% 20% 5% | 25V 50V 50V |
| | *A-1640-214-A | D2 BOARD, COM | PLETE **** | | | C600 A C601 A | 1-113-890-51 1-161-964-91 | CERAMIC | 0.0022MF 0.0047MF | 20% | 250V 250V |
| C1801 C1803 | < CAF 1-126-967-11 1-137-368-11 | | 47MF 0.0047MF | 20% 5% | 50V 50V | C602 A C603 C604 C605 | 1-161-964-91 1-125-555-11 1-126-968-11 1-107-929-11 | ELECT ELECT | 0.0047MF 330MF 100MF 10MF | 20% 20% 20% | 250V 400V 50V 100V |
| C1804 C1807 | 1-126-964-11 1-137-366-11 | | 10MF 0.0022MF | 20% 5% | 50V 50V | C606 C607 | 1-162-318-11 1-104-666-11 | CERAMIC | 0.001MF 220MF | 10% 20% | 500V 25V |
| ONT 1 0 0 4 | | INECTOR > | 3 DD #4 * | 0300 100 | | C608 C611 | 1-109-880-11 1-102-228-00 | FILM CERAMIC | 0.0015MF 470PF | 3% 10% | 2KV 500V |
| CN1801 CN1803 | *1-568-878-51 | CONNECTOR, BOY | | OAKD IUP | | C612 C613 | 1-111-160-91 1-124-347-00 | ELECT | 22MF 100MF | 20% 20% | 100V 160V |
| | < DIC | DDE > | | | | C614 C615 | 1-128-526-11 1-111-067-11 | ELECT | 100MF 0.001MF | 20% 20% | 25V 25V |
| D1802 | 8-719-110-17 < IC | DIODE RD10ESB | 2 | | | C616 C617 C618 | 1-111-067-11 1-128-339-51 1-136-165-00 | ELECT | 0.001MF 2200MF 0.1MF | 20% 20% 5% | 25V 16V 50V |
| IC1801 IC1802 | | IC NJM78M09FA | | | | C619 C620 C621 | 1-102-228-00 1-102-228-00 1-136-165-00 | CERAMIC CERAMIC | 470PF 470PF 0.1MF | 10% 10% | 500V 500V 50V |
| | < LIN | IK IC > | | | | C622 | 1-107-925-11 | ELECT | 1MF | 5% 20% | 100V |
| JW1802 ⚠ | 1-532-605-91 | LINK, IC (0.4 | A) | | | C623 | 1-104-666-11 | | 220MF | 20% | 25V |
| | | SISTOR > | | | | C624 C625 C626 | 1-136-165-00 1-126-967-11 1-104-666-11 | ELECT | 0.1MF 47MF 220MF | 5% 20% 20% | 50V 50V 25V |
| R1802 R1807 R1809 | 1-249-426-11 1-247-883-00 1-249-429-11 | CARBON CARBON | 5.6K 5 150K 5 10K 5 | % 1/4W % 1/4W | | C628 C629 | 1-126-964-11 1-111-097-11 | | 10MF 2200MF | 20% 20% | 50V 35V |
| R1810 R1811 | 1-249-429-11 1-249-429-11 | | 10K 5 | | | C630 C631 C633 △ | 1-111-097-11 1-126-965-11 1-107-564-11 | ELECT | 2200MF 22MF 0.22MF | 20% 20% 20% | 35V 50V 300V |
| R1812 | 1-249-429-11 | CARBON | 10K 5 | , | | C634 A C635 A | 1-107-564-11 1-107-564-11 | FILM | 0.22MF 0.22MF | 20% 20% | 300V 300V |
| | | D BOARD, COMP | LETE (KV | -29C1A/29 29C1D/29 | C1B/ C1E/ | C636 A | 1-113-890-51 1-136-203-11 1-106-220-00 | FILM MYLAR | 0.0022MF 0.01MF 0.1MF | 20% 5% 10% | 250V 630V 100V |
| | *A-1642-188-A | D BOARD, COMP | | 29C1K/29 -29C1D 1) | UIR) | C644 C647 | 1-137-043-11 1-162-116-00 | CERAMIC | 0.0047MF 680PF | 10% 10% | 400V 2KV |
| | 4-202-373-01 | · | ATING | | | C651 C800 C801 C802 | 1-102-228-00 1-137-368-11 1-137-372-11 1-136-161-00 | FILM FILM FILM | 470PF 0.0047MF 0.022MF 0.047MF | 10% 5% 5% 5% | 500V 50V 50V 50V |
| | < CAF | PACITOR > | | | | C804 | 1-136-165-00 | FILM | 0.1MF | 5% | 50 v |
| C502 | 1-102-824-00 | CERAMIC | 470PF | 5% | 50V | C805 | 1-136-207-11 | FILM | 0.047MF | 10% | 250V |

Les composants identifies par une trame et une marque :
sont critiques pour la securite.
Ne les remplacer que par une
piece portant le numero specifie. The components identified by shading and marked in are critical for safety.

Replace only with the part number

specified.



| REF.NO. | PART NO. | DESCRIPTION | ON | 1 | REMARK | REF.NO. | PART NO. | D. DESCRIPTION | | | REMARK |
|--------------|------------------------------|--------------------|-----------------------|----------------|-----------------|----------------|---------------------------------------|----------------|--------------------------------------|----------|--|
| C806 | 1-104-999-11 | MYLAR | 0.1MF | 10% | 200V | C1218 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C807 | | FILM | 0.68MF | 5% | 200V | | | | | | |
| C808 C810 | 1-137-205-11 1-107-683-11 | | 0.1MF 2.2MF | 5% | 400V 250V | | < CON | NECTOR | > | | |
| C010 | 1-107-003-11 | EDECI | 4.411 | | 2304 | CN600 | 1-508-786-00 | PIN, C | ONNECTOR (5MM PIT | CH) 2P | |
| C811 | 1-102-212-00 | | 820PF | 10% | 500V | CN601 🛦 | 1-508-765-11 | PIN, C | ONNECTOR (5MM PIT | CH) 3P | |
| C812 C813 | 1-136-125-00 1-129-722-00 | | 0.68MF 0.047MF | 5% 10% | 400V 630V | CN603 A | *1-580-844-11 | PIN, C | ONNECTOR (POWER) TOR PIN (DY) 6P | £ 1344 | The second s |
| | 1-129-722-00 | | 0.047MF | 10% 3% | 1.4KV | CN800 | *1-500-790-11 | CONNEC | TOR PIN (DI) 6P TOR, BOARD TO BOA | מו מוח | |
| C815 | 1-136-562-11 | | 0.0082MF | 10% | 400V | 011001 | 1 3/3 230 21 | COMME | TON, BOILD TO BOIL | 101 | |
| | | | | 4.00 | | CN803 | 1-695-915-11 | | | | |
| C816 | 1-161-754-00 | | 0.001MF | 10% | 2KV | CN804 | 1-778-037-11 | PIN, C | ONNECTOR 6P | | |
| C817 C818 | 1-161-754-00 1-162-134-11 | CERAMIC CERAMIC | 0.001MF 470PF | 10% 10% | 2KV 2KV | CN807 CN900 | 1-568-878-51 | TERMIN | AL BLOCK, S 3P | | |
| C819 | 1-136-208-11 | | 0.068MF | 10% | 250V | Ç115 0 0 | 1 300 0,0 11 | | KV-29C1A/29C1B/29 | C1D/29C1 | LE/29C1K/ |
| C820 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | | | | 29C1R) | • | |
| C821 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV | CN902 | 1-695-299-11 | CONNEC | TOR, BOARD TO BOA | RN 500 | |
| C822 | 1-107-662-11 | | 22MF | 20% | 250V | CN1401 | *1-568-880-51 | | | . JVI | |
| C824 | 1-123-024-21 | | 33MF | | 160V | CN1408 | *1-568-879-11 | | | | |
| C829 | 1-124-902-00 | | 0.47MF | 20% | 50V | CN1420 | 1-568-878-51 | PIN, C | ONNECTOR 3P | | |
| C830 | 1-124-902-00 | ELECT | 0.47MF | 20% | 507 | | < DIO | DF \ | | | |
| C832 | 1-124-903-11 | | 1MF | 20% | 50V | | 7 210 | <i>Ju</i> / | | | |
| C834 | 1-128-551-11 | | 22MF | 20% | 25V | D500 | 8-719-109-85 | | | | |
| C835 C836 | 1-162-318-11 1-162-117-00 | | 0.001MF 100PF | 10% 10% | 500V 500V | D502 D503 | 8-719-979-85 8-719-979-85 | | | | |
| C838 | 1-102-117-00 | | 470PF | 10% | 500V | D504 | 8-719-991-33 | | | | |
| | | | | | | D505 | 8-719-982-03 | | | | |
| C839 | 1-136-189-00 | FILM | 0.1MF | 10% | 250V | DEAC | 0 710 001 33 | DIODE | 1001228 88 | | |
| C845 C901 | 1-102-110-00 1-101-810-00 | CERAMIC CERAMIC | 220PF 100PF | 10% 5% | 50V 500V | D506 D507 | 8-719-991-33 8-719-109-85 | | | | |
| CJUI | 1-101-010-00 | | 1A/29C1B/29C | | | D600 | 8-719-510-53 | | | | |
| | | ` 29C | 1R) | | | D601 | 8-719-046-77 | DIODE | EM1-V1 | | |
| anna | 1 107 272 11 | DTIN | 0.0001111 | F0. | EAST | D603 | 8-719-109-97 | DIODE | RD6.8ES-B2 | | |
| | 1-137-372-11 1-137-372-11 | | 0.022MF 0.022MF | 5% 5% | 50V 50V | D604 | 8-719-046-75 | DIODE | PII_1_V1 | | |
| C904 | 1-104-665-11 | | 100MF | 20% | 25V | D605 | 8-719-302-43 | | | | |
| C905 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | D606 | 8-719-302-43 | DIODE | EL1Z | | |
| annc | 1 100 004 11 | DI DOM | 1000 | 200 | F 047 | D607 | 8-719-046-78 | | | | |
| C906 | 1-126-964-11 | | 10MF 1A/29C1B/29C | 20% 1D/29C1 | 50V E/29C1K/ | D608 | 8-719-312-94 | DIODE | EU2-V1 | | |
| | | 29C | 1R) | | | D609 | 8-719-301-64 | | | | |
| C907 | 1-126-964-11 | | 10MF | 20% | 50V | D610 | 8-719-046-74 | | | | |
| | | (KV-29C) 29C | 1A/29C1B/29C 1R) | ID/ 29C1 | B/29CIK/ | D611 D612 | 8-719-045-48 8-719-046-76 | | | | |
| | | 250 | | | | D613 | 8-719-045-48 | | | | |
| C908 | 1-126-964-11 | | 10MF | 20% | 50V | | | | | | |
| | | (KV-29C) 29C | 1A/29C1B/29C | 1D/29C1 | E/29C1K/ | D614 D615 | 8-719-045-48 8-719-046-75 | | | | |
| C911 | 1-126-964-11 | | 10MF | 20% | 50V | D616 | 8-719-110-03 | | | | |
| | | | | | | D617 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| C913 | 1-101-810-00 | | 100PF 1A/29C1B/29C | 5% | 500V | D618 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| | | (KV-29C) 29C | | 10/2901 | E/29C1K/ | D619 | 8-719-991-33 | DIODE | 1 SS1 3 3 T = 77 | | |
| C1200 | 1-136-165-00 | | 0.1MF | 5% | 50V | D620 | 8-719-991-33 | | | | |
| C1201 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | D622 | | | MTZJ-T-77-9.1A | | |
| G1202 | 1 126 172 00 | DTIN | 0 4740 | F0. | EOV | D625 | 8-719-991-33 | | | | |
| | 1-136-173-00 1-136-169-00 | | 0.47MF 0.22MF | 5% 5% | 50V 50V | D626 | 8-719-046-74 | DIODR . | MU-012-V1 | | |
| | 1-136-169-00 | | 0.22MF | 5% | 50V | D631 | 8-719-109-93 | DIODE | RD6.2ES-B2 | | |
| C1205 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | D800 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| C1206 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | D801 | 8-719-991-33 | | | | |
| C1207 | 1-126-933-11 | ELECT | 100MF | 20% | 16V | D802 D803 | 8-719-991-33 8-719 - 908-03 | | | | |
| C1208 | 1-126-963-11 | ELECT | 4.7MF | 20% | 5 0 V | | p | | · · · - | | |
| | 1-126-963-11 | | 4.7MF | 20% | 50V | D807 | 8-719-302-43 | | | | |
| | 1-126-933-11 1-136-173-00 | | 100MF 0.47MF | 20% 5% | 16V 50V | D808 D809 | 8-719-908-03 | | GP08D RGP02-20EL-6394 | | |
| -141J | T-130-113-00 | TIM | JA)F.V | J10 | JU1 | D809 D810 | 8-719-302-43 | | | | |
| | 1-137-366-11 | | 0.0022MF | 5% | 50V | D812 | | | FMS-3FU-LF027-1 | | |
| C1217 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V | | | | | | |
| | | | | | | | | | | | |



Les composants identifies par une trame et une marque et sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked in are critical for safety.

Replace only with the part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTIO | N | REMARK |
|-----------------|------------------------------|---|--------------------------|----------------|--|--------------------------------|-------------------|-----------------|
| D815 | 8-719-908-03 | DIODE GP08D | | L615 | 1-412-529-11 | | 22UH | |
| D817 | | DIODE RD5.6ESB2 | | L616 | 1-412-533-21 | | 47UH | |
| D901 | 8-719-030-11 | DIODE SLA-570KT3F (KV-29C1A/29C1B/29 | 201D/2001F/2001F/ | L801 L802 | | COIL, DRAM CO | | |
| | | 29C1R) | CID, ZJCIE, ZJCIK, | 1002 | 1 455-104-00 | COID, WITH CC | ALL: | |
| | | | | L803 | | COIL, AIR-COR | | |
| D902 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A (KV-29C1A/29C1B/29 | 001D /2001P /2001F / | L804 L805 | | COIL, HORIZON COIL, CHOKE 4 | | TY |
| | | 29C1R) | CID/25CIE/25CIR/ | L809 | 1-412-533-21 | | 47UH | |
| D903 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | L811 | | COIL, CHOKE 2 | | |
| | | (KV-29C1A/29C1B/29 | 9C1D/29C1E/29C1K/ | - 040 | 4 440 550 04 | | | |
| | | 29C1R) | | L813 L901 | 1-412-552-21 1-408-603-31 | | 2.2MMH 10UH | |
| D904 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | | L902 | 1-408-603-31 | | 100H | |
| | | (KV-29C1A/29C1B/29 | 9C1D/29C1E/29C1K/ | L903 | 1-408-409-00 | INDUCTOR | 10UH | |
| -005 | 0 540 000 60 | 29C1R) | | | | | | 1D/29C1E/29C1K/ |
| D905 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A (KV-29C1A/29C1B/29 | 2011 / 2001 F / 2001 F / | | | 29C1 | ж) | |
| | | 29C1R) | CID/ EJCIL/ EJCIK/ | L904 | 1-408-409-00 | INDUCTOR | 10UH | |
| | | · | | | | (KV-29C1 | A/29C1B/29C | 1D/29C1E/29C1K/ |
| D906 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | 04 D /00 04 D /00 04 D / | | | 29C1 | R) | |
| | | (KV-29C1A/29C1B/29 29C1R) | CID/Z9CIE/Z9CIK/ | | < TC | LINK > | | |
| D1201 | 8-719-109-72 | DIODE RD3.9ES-B2 | | | | | | |
| | | | | PS600 A | £ 1-532-686-91 | LINK, IC 2.7A | (ICP-F75) | |
| | < FUS | SE > | | PS601 A | 1-532-686-91 | LINK, IC 2.7A | (ICP-F75) | |
| F601 <i>á</i> | 1-576-232-21 | FUSE (H.B.C.) 5A/250V | | PS603 A | 1-532-686-91 1-532-686-91 1-532-686-91 | LINK, IC 2.7A | (ICP-F75) | |
| | | HOLDER, FUSE ; F601 | | | | | | |
| | < FR | RRITE BEAD > | | | < TRA | NSISTOR > | | |
| | | | | Q501 | | TRANSISTOR 29 | | |
| FB600 | | FERRITE BEAD INDUCTOR | | Q502 | | TRANSISTOR 25 | | |
| FB601 FB602 | | FERRITE BEAD INDUCTOR 1 FERRITE BEAD INDUCTOR 1 | | Q503 Q601 | | TRANSISTOR DT | | |
| FB604 | | FERRITE BEAD INDUCTOR (| | Q602 | | TRANSISTOR 25 | | |
| FB605 | | FERRITE BEAD INDUCTOR (| | | | | | |
| FB606 | 1_410_397_21 | FERRITE BEAD INDUCTOR 1 | 1 1mm | Q603 Q604 | | TRANSISTOR 2S | | |
| FB607 | | FERRITE BEAD INDUCTOR | | Q605 | | TRANSISTOR 25 | | |
| FB608 | | FERRITE BEAD INDUCTOR (| | Q606 | | TRANSISTOR DI | | |
| FB800 | 1-410-396-41 | FERRITE BEAD INDUCTOR (|).45UH | Q607 | 8-729-119-78 | TRANSISTOR 2S | C2785-HFE | |
| | < IC | > | | Q800 - | 8-729-119-78 | TRANSISTOR 2S | C2785-HFE | |
| | | | | Q801 | | TRANSISTOR 29 | | |
| IC500 IC600 | 8-759-192-71 | IC STV9379 IC STR-S6708 | | Q802 Q803 | | TRANSISTOR 2S | | |
| | | IC TLP721(D4-) | | Q805 | | TRANSISTOR DI | | |
| IC602 | 8-749-920-61 | | | - | | | | |
| IC603 | 8-759-144-82 | IC μPC2405HF | | Q900 | | TRANSISTOR 29 | | |
| IC604 | 8-759-510-52 | IC L4941BV | | Q1200 Q1201 | | TRANSISTOR DI | | |
| IC606 | 8-759-267-25 | IC LM2940T-9.0 | | Q1202 | 8-729-900-80 | TRANSISTOR DT | C114ES | |
| IC800 | 8-759-103-93 | | 21700 F1 | Q1203 | 8-729-900-74 | TRANSISTOR DI | C143TS | |
| IC900 IC1200 | 8-747-905-11 8-759-250-68 | RAY CATCHER ELEMENT SEX IC TDA7264 | (1/30-21 | Q1204 | 8-729-900-74 | TRANSISTOR DT | C143TS | |
| T.71001 | 0 550 500 01 | TO #810000W | | - | 220 | T.C.T.O.D. | | |
| IC1201 | 8-759-502-21 | IC TDAZ8ZZM | | | < RES | ISTOR > | | |
| | < JAC | CK SOCKET > | | R500 | 1-215-457-00 | | 33K 1% | 1/4W |
| J900 | 1-764-606-11 | JACK | | R502 R503 | 1-249-421-11 1-249-429-11 | | 2.2K 5% 10K 5% | 1/4W 1/4W |
| | | | | R504 | 1-215-455-00 | METAL | 27K 1% | 1/4W |
| | < CO1 | IT > | | R505 | 1-249-382-11 | CARBON | 1.2 5% | 1/4W F |
| L502 | 1-412-519-11 | | | R506 | 1-215-439-00 | | 5.6K 1% | 1/4W |
| L503 | 1-412-519-11 | | | R507 | 1-215-888-00 | | 220 5% | 2W F 2W F |
| L609 L611 | 1-412-533-21 1-412-527-11 | | | R508 R509 | 1-216-371-00 1-249-443-11 | | 1.5 5% 0.47 5% | 2W F 1/4W F |
| L612 | 1-412-522-41 | | ! | R510 | 1-249-443-11 | | 0.47 5% | 1/4W F |
| L613 | 1-412-522-41 | INDUCTOR 5.6UH | | R520 | 1-215-457-00 | MPTAT. | 33K 1% | 1/4W |
| 7013 | 1-417-327-41 | TUDUCION 3.00H | ! | NJAV | 1-213-437-00 | re i au | 13N 10 | 1/271 |

Les composants identifies par une trame et une marque : sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked : are critical for safety.
Replace only with the part number specified.



| REF.NO. | PART NO. | DESCRIPTIO | N | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | N | | | REMARK |
|--|--|---------------------------------|------------------------------------|----------------------------|--------------------------------------|--------|---|--|----------------------------|-------------------------------------|-----------------------------|--------------------------------------|---------------|
| R521 R522 R523 R524 | 1-215-455-00 1-247-863-91 1-247-863-91 1-249-425-11 | CARBON | 27K 22K 22K 4.7K | 1% 5% 5% 5% | 1/4W 1/4W 1/4W 1/4W | | R818 R819 R820 R821 | 1-215-882-00 1-216-345-11 1-249-403-11 1-215-909-11 | METAL OXIDE CARBON | 22 0.47 68 47 | 5% 5% 5% 5% | 2W 1W 1/4W 3W | F F |
| R525 R526 R527 R600 R601 | 1-249-425-11 1-249-421-11 1-215-437-00 1-216-490-11 1-249-417-11 | CARBON METAL METAL OXIDE | 4.7K 2.2K 4.7K 39K 1K | 5% 5% 1% 5% | 1/4W 1/4W 1/4W 3W 1/4W | F | R822 R824 R826 R827 R828 | 1-215-868-00 1-249-420-11 1-247-752-11 1-249-425-11 1-249-430-11 | CARBON CARBON CARBON | 680 1.8K 1K 4.7K 12K | 5% | 1W 1/4W 1/2W 1/4W 1/4W | F |
| R602 R603 R604 R605 R607 | 1-215-473-00 1-215-898-11 1-249-420-11 1-216-362-11 1-216-421-11 | CAREON METAL OXIDE | 150K 10K 1.8K 0.27 | 15 5% 5% 5% 5% | 1/4W 2W 1/4W 2W 1W | F F | R829 R830 R833 R835 R836 | 1-249-493-11 1-217-778-11 1-247-887-00 1-216-471-11 1-249-439-11 | FUSIBLE CARBON | 56K 1K 220K 27 68K | 5% 5% 5% 5% | 1/2W 1W 1/4W 3W 1/4W | F F |
| R608 R610 R611 R612 R613 | 1-216-365-00 1-215-421-00 1-216-354-11 1-249-428-11 1-249-417-11 | METAL METAL OXIDE CARBON | 0.47 1K 2.7 8.2K 1K | 5% 1% 5% 5% 5% | 2W 1/4W 1W 1/4W 1/4W | F | R837 R840 R841 R842 R843 | 1-249-427-11 1-247-807-31 1-249-418-11 1-249-441-11 1-249-441-11 | CARBON CARBON CARBON | 6.8K 100 1.2K 100K 100K | 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | |
| R614 R615 R616 R617 R618 | 1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00 1-247-863-91 | CARBON METAL METAL OXIDE | 22K 33K 120K 33K 22K | 5% 5% 1% 5% | 1W 1/4W 1/4W 2W 1/4W | F | R846 R847 R848 R849 R850 | 1-247-885-91 1-247-895-91 1-249-863-91 1-249-429-11 1-249-425-11 | CARBON CARBON CARBON | 180K 470K 22K 10K 4.7K | 5% 5% 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | |
| R619 R620 R621 R622 R623 | 1-216-425-11 1-260-131-11 1-216-425-11 1-249-437-11 1-249-429-11 | CARBON METAL OXIDE CARBON | 56 470K 56 47K 10K | 5% 5% 5% 5% | 1W 1/2W 1W 1/4W 1/4W | F | R851 R852 R900 R901 R902 | 1-215-898-11 1-249-432-11 1-247-815-91 1-247-734-11 1-247-734-11 | CARBON CARBON CARBON | 10K 18K 220 39 39 | 5% 5% 5% 5% | 2W 1/4W 1/4W 1/2W 1/2W | F |
| R624 R625 R626 R627 R628 | 1-249-393-11 1-249-434-11 1-249-430-11 1-216-347-11 1-249-415-11 | CARBON CARBON METAL OXIDE | 10 27K 12K 0.68 680 | 5% 5% 5% 5% 5% | 1/4W 1/4W 1/4W 1W 1/4W | F | R904 R905 | 1-249-389-11 1-247-804-11 | CARBON | | 5% 5% B/2 9 C1 | 1/4W 1/4W LD/29C1 | F E/29C1K/ |
| R629 A R630 A R631 A R632 R633 | 1-244-945-91 1-218-265-21 1-205-949-11 1-247-807-31 1-247-807-31 | METAL WIREWOUND CARBON | 1M 8.2M 1.8 100 100 | 5% 5% 5% 5% | 1/2W 1W 10W 1/4W 1/4W | | R906 R907 | 1-247-804-11 | (KV-29C1 29C1 CARBON | .R) 75 . A/29C 1 | 5% | 1/4W | E/29C1K/ |
| R634 R635 R636 R637 R638 | 1-249-397-11 1-249-437-11 1-249-417-11 1-247-815-91 1-247-863-91 | CARBON CARBON CARBON | 22 47K 1K 220 22K | 5% 5% 5% 5% 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | F | R908 R909 R910 R911 R912 | 1-249-401-11 1-249-429-11 1-249-422-11 1-249-426-11 1-249-429-11 | CARBON CARBON CARBON | 47 10K 2.7K 5.6K 10K | | 1/4W 1/4W 1/4W 1/4W 1/4W | |
| R639 R642 A R645 R646 R647 | 1-215-439-00 1-205-949-11 1-249-422-11 1-249-377-11 1-202-933-61 | WIREWOUND CARBON CARBON | 5.6K 1.8 2.7K 0.47 0.1 | 5% 5% | 1/4W 10W 1/4W 1/4W 1/2W | | R913 R914 R919 | 1-247-863-91 1-249-437-11 1-249-437-11 | CARBON CARBON | | 5% 5% 5% B/29C1 | 1/4W 1/4W 1/4W LD/29C1 | E/29C1K/ |
| R649 R800 R802 R803 R805 | 1-249-426-11 1-249-421-11 1-249-431-11 1-249-424-11 1-249-429-11 | CARBON CARBON CARBON | 5.6K 2.2K 22K 3.9K 10K | 5% 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | F | R921 R922 R923 | 1-249-437-11 1-247-807-31 1-249-412-11 | CARBON CARBON | | 5% 5% 5% B/29C1 | 1/4W 1/4W 1/4W LD/29C1 | E/29C1K/ |
| R809 R812 R813 R814 R816 | 1-247-891-00 1-249-421-11 1-215-867-00 1-249-411-11 1-215-917-11 | CARBON METAL OXIDE CARBON | 330K 2.2K 470 330 1K | | 1/4W 1/4W 1W 1/4W 3W | F F | R1200 R1201 R1202 R1203 R1204 | 1-249-425-11 1-249-434-11 1-249-393-11 1-249-421-11 1-249-421-11 | CARBON CARBON CARBON | 4.7K 27K 10 2.2K 2.2K | 5% 5% 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | F |
| R817 | 1-216-481-11 | METAL OXIDE | 1.2K | 5% | 3W | F | R1205 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W | |



Les composants identifies par une trame et une marque of sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked i are critical for safety.

Replace only with the part number specified.

| REF.NO. PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTIO | N | REMARK |
|--|--|---|---|--|---|---------------------------------------|--------------------------------|
| R1206 1-249-428-11 | CARBON 8.2K 5% | 1/4W | | < DIC | DE > | | |
| R1208 1-212-849-00 R1209 1-212-849-00 R1211 1-249-424-11 | FUSIBLE 4.7 5% | 1/4W F 1/4W F 1/4W | D1701 D1702 D1703 | 8-719-110-88 | DIODE 1SS1335 DIODE RD39ES- DIODE RD39ES- | -B2 | |
| R1212 1-249-424-11 R1213 1-249-421-11 | CARBON 2.2K 5% | 1/4W 1/4W | | < COI | L > | | |
| R1216 1-249-413-11 R1217 1-249-425-11 | | 1/4W 1/4W | L1701 | 1-408-409-00 | | | |
| < REI | LAY > | | L1702 L1703 | 1-408-403-00 1-408-409-00 | INDUCTOR | 3.3UH 10UH | |
| RY600 A 1-755-018-11 | RELAY | | L1704 L1705 | 1-408-418-00 1-408-418-00 | | 56UH 56UH | |
| < SWI | TTCH > | | | < TRA | NSISTOR > | | |
| S900 1-692-979-11 S901 1-692-979-11 | SWITCH, PUSH (AC POWER) SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE | | Q1701 Q1702 Q1703 Q1704 Q1706 | 8-729-119-78 8-729-017-05 8-729-119-78 | TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: | SC2785-HFE SA1837 SC2785-HFE | |
| < SPA SG801 1-519-422-11 | ARK GAP > GAP, SPARK | | Q1708 Q1709 Q1840 | 8-729-119-78 | TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: | SC2785-HFE | |
| < TRA | ANSFORMER > | | 22010 | | ISTOR > | 000,00 1111 | |
| LF600 | | 1 | R1701 | 1-249-417-11 | | 1K 5% | 1/4W |
| | TRANSFORMER, FERRITE (PM TRANSFORMER ASSY, FLYBAC | | R1702 R1703 R1704 R1705 | 1-249-417-11 1-249-421-11 1-249-415-11 1-247-815-91 | CARBON CARBON | 1K 5% 2.2K 5% 680 5% 220 5% | 1/4W 1/4W 1/4W 1/4W |
| | RMISTOR > | | R1706 R1708 | 1-247-815-91 1-249-412-11 | | 220 5% 3 9 0 5% | 1/4W 1/4W |
| THP600 A 1-809-827-11 | | | R1712 R1713 | 1-260-311-11 1-249-384-11 | CARBON CARBON | 39 5% 1.8 5% | 1/2W 1/4W F |
| ************* | ********* | ***** | R1714 | 1-249-414-11 | | 560 5% | 1/4W F |
| *A-1644-070-A | VM BOARD, COMPLETE | | R1715 R1716 R1717 R1718 | 1-249-432-11 1-249-417-11 1-216-476-11 1-249-432-11 | CARBON METAL OXIDE | 18K 5% 1K 5% 180 5% 18K 5% | 1/4W 1/4W F 3W F 1/4W |
| *4-368-683-11 | SPRING, TRANSISTOR | | R1719 | 1-249-384-11 | | 1.8 5% | 1/4W F |
| < CAI | PACITOR > | | R1720 R1721 | 1-249-400-11 1-249-414-11 | | 39 5% 560 5% | 1/4W F 1/4W |
| C1701 1-126-933-11 C1702 1-128-551-11 C1703 1-126-933-11 C1704 1-137-403-51 | ELECT 22MF ELECT 100MF | 20% 16V 20% 25V 20% 16V 5% 100V | R1722 R1724 R1725 | 1-249-401-11 1-249-400-11 1-216-451-11 | CARBON CARBON | 47 5% 39 5% 120 5% | 1/4W 1/4W 2W F |
| C1705 1-107-638-11 C1706 1-104-999-11 C1707 1-137-397-11 | FILM 0.1MF | 20% 160V 5% 200V 5% 100V | R1728 R1729 R1730 R1731 | 1-249-413-11 1-249-413-11 1-249-422-11 1-249-411-11 | CARBON CARBON | 470 5% 470 5% 2.7K 5% 330 5% | 1/4W 1/4W 1/4W 1/4W |
| C1708 1-137-364-11 C1709 1-137-364-11 C1710 1-102-074-00 | FILM 0.001MF | 5% 50V 5% 50V 10% 50V | ****** | ********* | ****** | ****** | ***** |
| C1720 1-107-667-11 C1721 1-137-397-11 C1722 1-126-934-11 C1723 1-161-830-00 C1725 1-128-551-11 | FILM 0.047MF ELECT 220MF CERAMIC 0.0047MF | 20% 160V 5% 100V 20% 16V 500V 20% 25V | | | | | |
| C1726 1-126-934-11 | ELECT 220MF | 20% 16V | | | | | |
| < 001 | NNECTOR > | | | | | | |
| | PIN, CONNECTOR 5P CONNECTOR, BOARD TO BOAR | ED 8P | | | | | |

DESCRIPTION

Les composants identifies par une trame et une marque i sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked : are critical for safety.

Replace only with the part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. |
|---------|--|---|-------------------------------------|--|----------|
| | MISC **** | | | | |
| | 1-452-032-00 1-452-094-00 3 1-453-169-11 | COIL, DEGAUSSING MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK TRANSFORMER ASSY, FLYB. SPEAKER (5x11CM) | ; 15MM Ø ACK(NX-1604A2) | | |
| | 1-571-433-21 1-693-338-11 | SWITCH, PUSH (AC POWER TUNER/VIF (AEP) (KV-29C1A/29C1D/29C 29C1R) | | | |
| | 1-693-340-11 | TUNER/VIF (FR) (KV-29C | 1B) | | |
| | | CORD, POWER (WITH NOIS 2.5A/250V (KV-29C1A/29C1D/29 | C1D1) | | |
| | ± 1-690-270-21 | CORD, POWER (WITH CONN 2.5A/250V (KV-29C1B/29C1E/29 | | | |
| V901 | i 8-453-005-11 | DEFLECTION YOKE (Y29GX NECK ASSY, PICTURE TUB PICTURE TUBE (SD-269)(ITC | E (NA-297-M) | | |
| ***** | ****** | ******** | ******* | | |
| | | SSORIES AND PACKING MAT | | | |
| | 4-203-366-51 | | V-29C1B) AN/ITALIAN/DUTCH) | ************************************** | |
| | 4-203-366-11 | MANUAL, INSTRUCTION (K (DUTCH/GREEK/ENGLIS | | İ | |
| | | MANUAL, INSTRUCTION (K | (ENGLISH/DUTCH) | | |
| | | MANUAL, INSTRUCTION (K MANUAL, INSTRUCTION (K (PORTUGUESE/FINNISH/ SWEDISH) | V-29C1E) | | |
| | 4-203-366-91 | MANUAL, INSTRUCTION (R (CZECH/ENGLISH/ RUSSIAN) | N-29C1R/29C1R) POLISH/BULGARIAN/ | | |
| | *4-203-334-01 *4-203-335-01 | INDIVIDUAL CARTON CUSHION (LOWER) (ASSY) CUSHION (UPPER) (ASSY) BAG, PROTECTION | | | |
| | REMO *** | | | | |
| | 1-473-693-11 | COMMANDER, STANDARD TY | PE (RM-839) | | |